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NATURAL HISTORY SURVEY OF ILLINOIS
STATE LABORATORY OF NATURAL HISTORY
S, A. FORBES, DIRECTOR

Maps

Showing Distribution of Illinois Fishes

to Accompany a Report on the

Fishes of Illinois

BY

STEPHEN ALFRED FORBES, PH.D., LL.D.
AND
ROBERT EARL RICHARDSON, A.M.

1908
PUBLISHED BY
AUTHORITY OF THE STATE LEGISLATURE

ILLINOIS PRINTING COMPANY
DANVILLE, ILLINOIS

597
F74f
atlas
Cop. 4

List of Maps

The general map of the distribution of collections (Map IV.) shows, by the location of the red spots, all the localities from which collections of fishes have been made by us in the work of the Natural History Survey. The distribution maps for the various species indicate in the same way all the localities from which representatives of the species have been taken. *For an accurate idea of the significance of these species maps, each should be compared with Map IV.*

The following numbered list of the counties of the state corresponds to the figures on these maps.

1.	Jo Daviess	35.	Hancock	69.	Madison
2.	Stephenson	36.	McDonough	70.	Bond
3.	Winnebago	37.	Fulton	71.	Fayette
4.	Boone	38.	Mason	72.	Effingham
5.	McHenry	39.	Tazewell	73.	Jasper
6.	Lake	40.	McLean	74.	Crawford
7.	Cook	41.	Vermilion	75.	Lawrence
8.	Du Page	42.	Champaign	76.	Richland
9.	Kane	43.	Piatt	77.	Clay
10.	DeKalb	44.	Dewitt	78.	Marion
11.	Ogle	45.	Logan	79.	Clinton
12.	Lee	46.	Menard	80.	St. Clair
13.	Carroll	47.	Cass	81.	Monroe
14.	Whiteside	48.	Schuyler	82.	Randolph
15.	Rock Island	49.	Brown	83.	Washington
16.	Mercer	50.	Adams	84.	Perry
17.	Henry	51.	Pike	85.	Jefferson
18.	Bureau	52.	Scott	86.	Wayne
19.	Putnam	53.	Morgan	87.	Edwards
20.	La Salle	54.	Sangamon	88.	Wabash
21.	Kendall	55.	Christian	89.	White
22.	Grundy	56.	Macon	90.	Hamilton
23.	Will	57.	Moultrie	91.	Franklin
24.	Kankakee	58.	Douglas	92.	Jackson
25.	Iroquois	59.	Edgar	93.	Williamson
26.	Ford	60.	Clark	94.	Saline
27.	Livingston	61.	Coles	95.	Gallatin
28.	Marshall	62.	Cumberland	96.	Hardin
29.	Woodford	63.	Shelby	97.	Pope
30.	Stark	64.	Montgomery	98.	Johnson
31.	Peoria	65.	Macoupin	99.	Union
32.	Knox	66.	Greene	100.	Alexander
33.	Warren	67.	Calhoun	101.	Pulaski
34.	Henderson	68.	Jersey	102.	Massac

I. & II. The three sections of Illinois, northern, central, and southern, and the ten stream systems of the state: I., the Galena District, II., the Rock River System, III., the Illinois River System, IV., the Lake Michigan drainage, V., the Mississippi River drainage, VI., the Kaskaskia River System, VII., the Wabash System, VIII., the Big Muddy River System, IX., the Saline River System, and X., the Cairo District.

III. Glacial geology of Illinois.

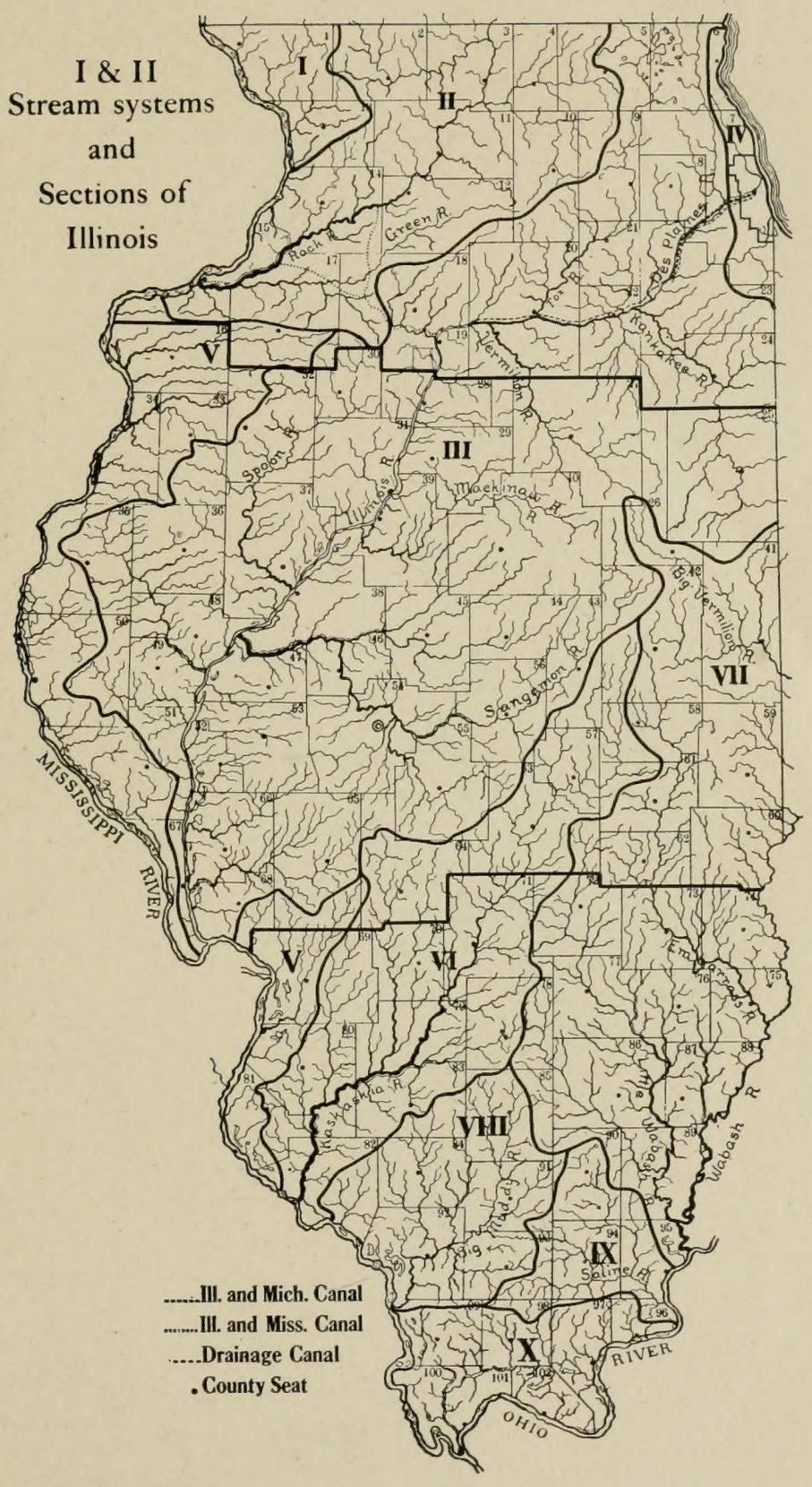
IV. Localities from which collections were made.

V.—CII. Distribution of species.

CIII. Northern species (●) and southern species (▲) in Illinois.

MA 62698

V. Lepisosteus osseus
VI. L. platostomus
VII. Amia calva
VIII. Dorosoma cepedianum
IX. Ictiobus cyprinella
X. I. urus
XI. I. bubalus
XII. Carpiodes carpio
XIII. C. difformis
XIV. C. velifer
XV. C. thompsoni
XVI. Erimyzon sucetta oblongus
XVII. Minytrema melanops
XVIII. Catostomus commersonii
XIX. C. nigricans
XX. Moxostoma anisurum
XXI. M. aureolum
XXII. M. breviceps
XXIII. Campostoma anomalum
XXIV. Chrosomus erythrogaster
XXV. Hybognathus nuchalis
XXVI. H. nubila
XXVII. Pimephales promelas
XXVIII. P. notatus
XXIX. Semotilus atromaculatus
XXX. Opsopœodus emiliæ
XXXI. Abramis crysoleucas
XXXII. Cliola vigilax
XXXIII. Notropis cayuga
XXXIV. N. heterodon
XXXV. N. blennius
XXXVI. N. gilberti
XXXVII. N. illecebrosus
XXXVIII. N. hudsonius
XXXIX. N. lutrensis
XL. N. whipplii
XLI. N. cornutus
XLII. N. jejunus
XLIII. N. atherinoides
XLIV. N. rubrifrons
XLV. N. umbratilis atripes
XLVI. Ericymba buccata
XLVII. Phenacobius mirabilis
XLVIII. Hybopsis dissimilis
XLIX. H. amblops
L. H. storerianus
LI. H. kentuckiensis
LII. Ictalurus punctatus
LIII. Ameiurus natalis
LIV. A. nebulosus
LV. A. melas
LVI. Leptops olivaris
LVII. Noturus flavus
LVIII. Schilbeodes gyrinus
LIX. S. miurus
LX. Umbra limi
LXI. Esox vermiculatus
LXII. E. lucius
LXIII. Fundulus diaphanus menona
LXIV. F. dispar
LXV. F. notatus
LXVI. Gambusia affinis
LXVII. Percopsis guttatus
LXVIII. Labidesthes sicculus
LXIX. Aphredoderus sayanus
LXX. Pomoxis annularis
LXXI. P. sparoides
LXXII. Centrarchus macropterus
LXXIII. Ambloplites rupestris
LXXIV. Chænobryttus gulosus
LXXV. Lepomis miniatus
LXXVI. L. megalotis
LXXVII. L. humilis
LXXVIII. L. pallidus
LXXIX. Eupomotis gibbosus
LXXX. Micropterus dolomieu
LXXXI. M. salmoides
LXXXII. Stizostedion vitreum
LXXXIII. S. canadense griseum
LXXXIV. Perca flavescens
LXXXV. Percina caprodes
LXXXVI. Hadropterus phoxocephalus
LXXXVII. H. aspro
LXXXVIII. Cottogaster shumardi
LXXXIX. Diplesion blennioides
XC. Boleosoma nigrum
XCI. B. camurum
XCII. Ammocrypta pellucida
XCIII. Etheostoma zonale
XCIV. E. jessiæ
XCV. E. cœruleum
XCVI. E. squamiceps
XCVII. E. flabellare
XCVIII. Boleichthys fusiformis
XCIX. Microperca punctulata
C. Roccus chrysops
CI. Morone interrupta
CII. Aplodinotus grunniens


I & II
Stream systems
and
Sections of
Illinois
I
II
III
IV
V
VI
VII
VIII
IX
X
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Kaskaskia R.
Embarras R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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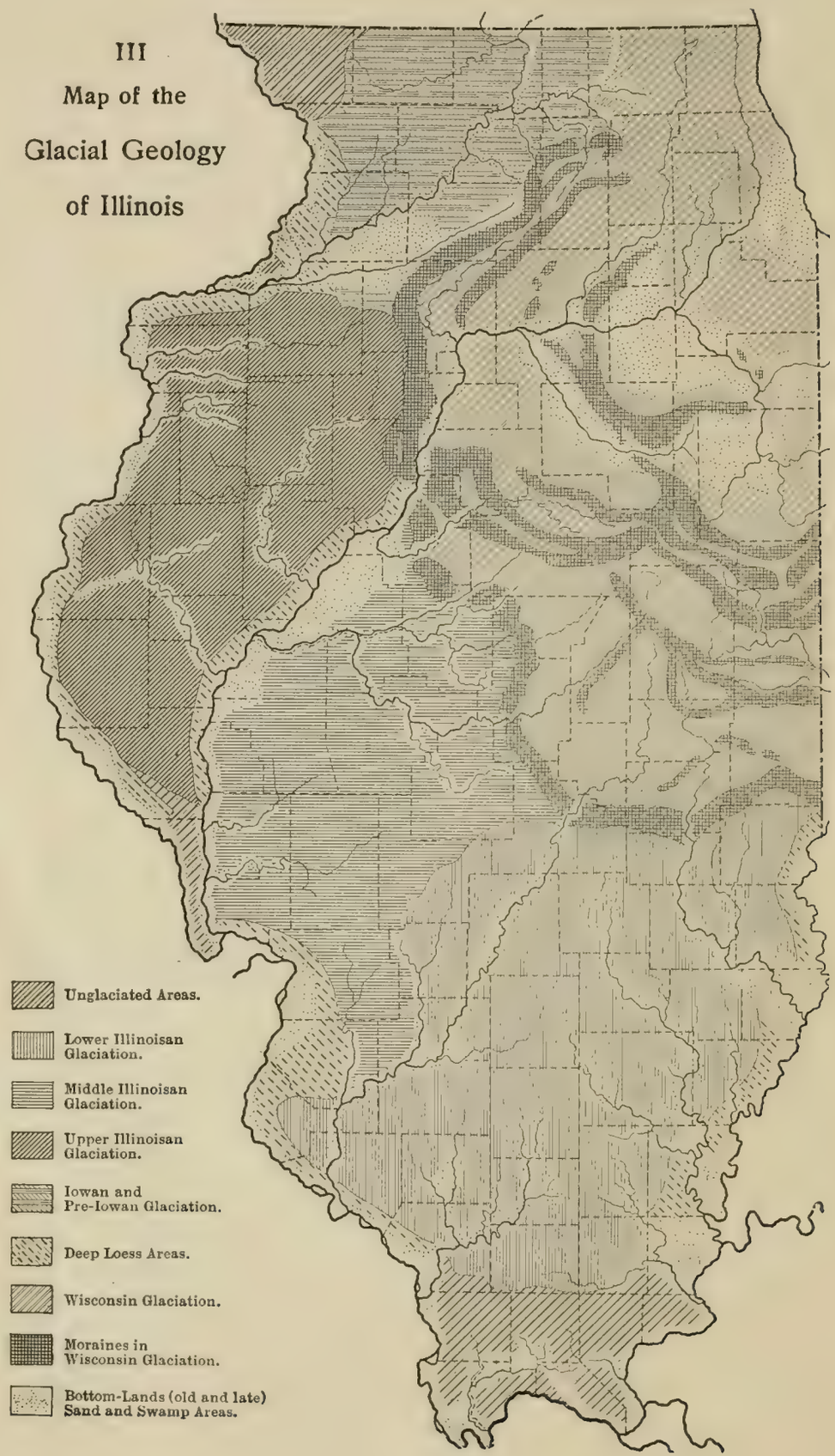
III

Map of the

Glacial Geology

of Illinois



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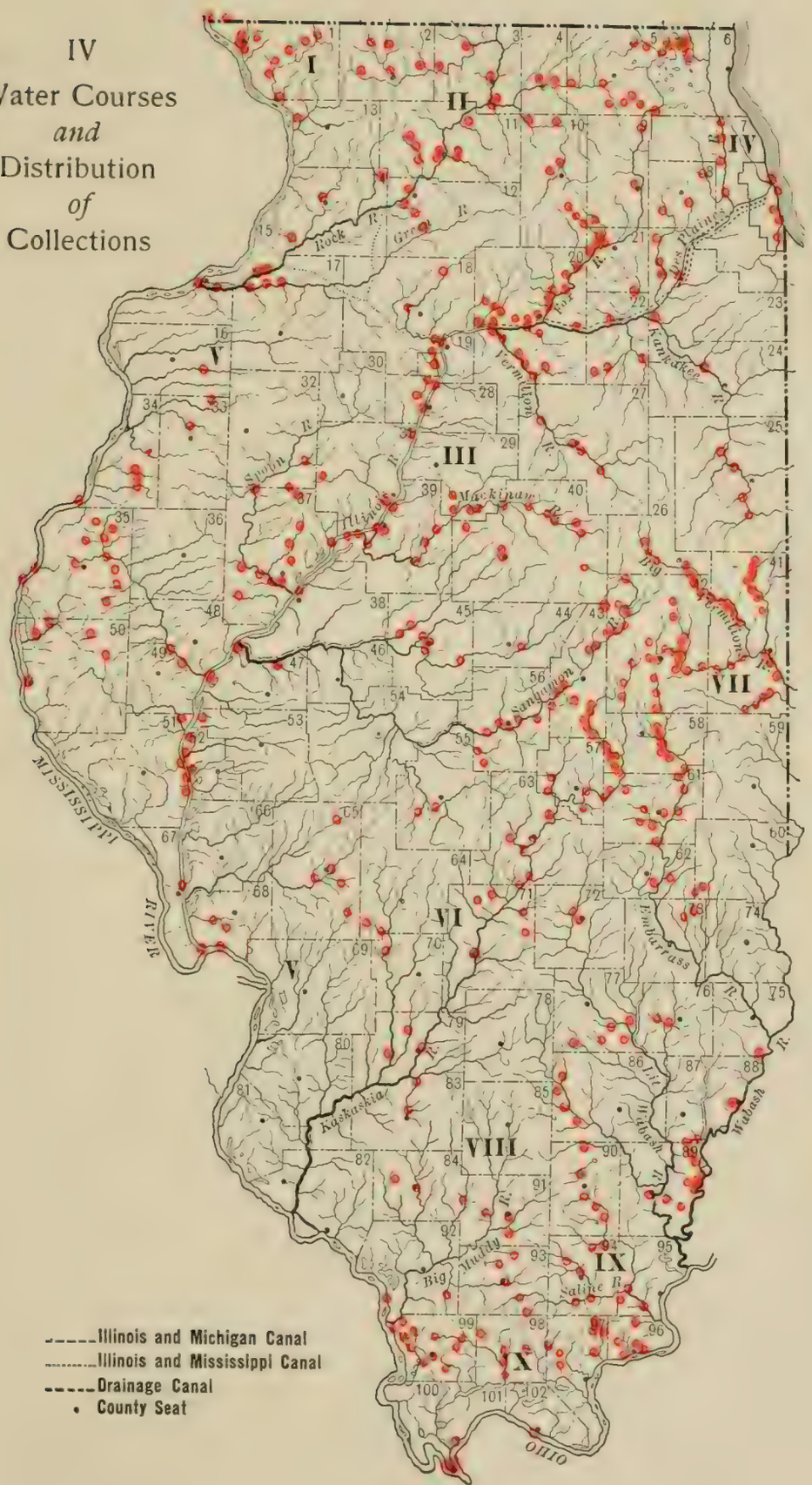
IV

Water Courses
and
Distribution
of
Collections



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V
Distribution
of
Lepisosteus
osseus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
• County Seat

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VI

Distribution

of

Lepisosteus

platostomus

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VII
Distribution
of
Amia
calva

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VIII.
Distribution
of
Dorosoma
cepedianum

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IX
Distribution
of
Ictiobus
cyprinella
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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X

Distribution *of* Ictiobus urus

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XI

Distribution
of
Ictiobus
bubalus

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XII

Distribution

of

Carpiodes

carpio

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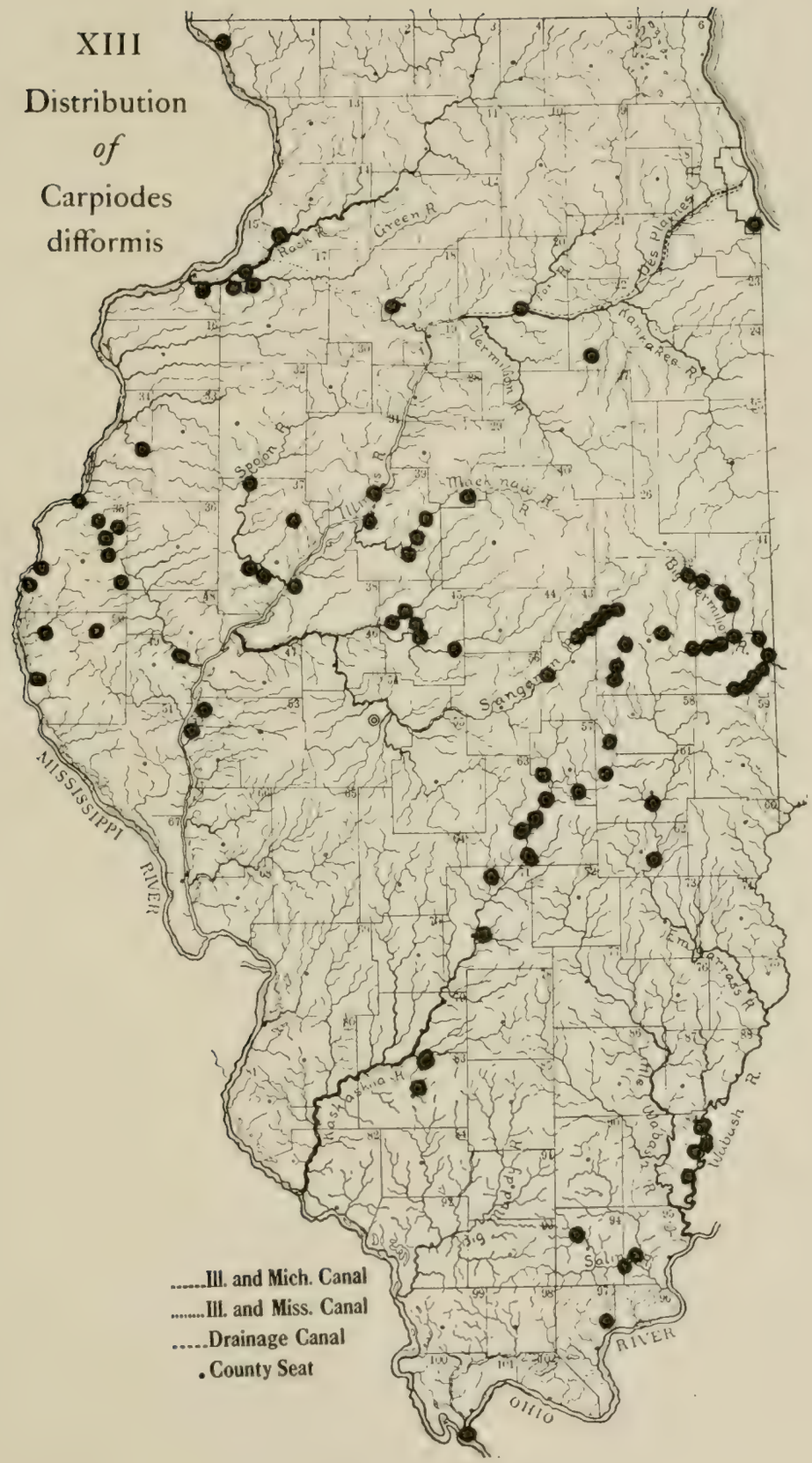
XIII

Distribution

of

Carpiodes

difformis



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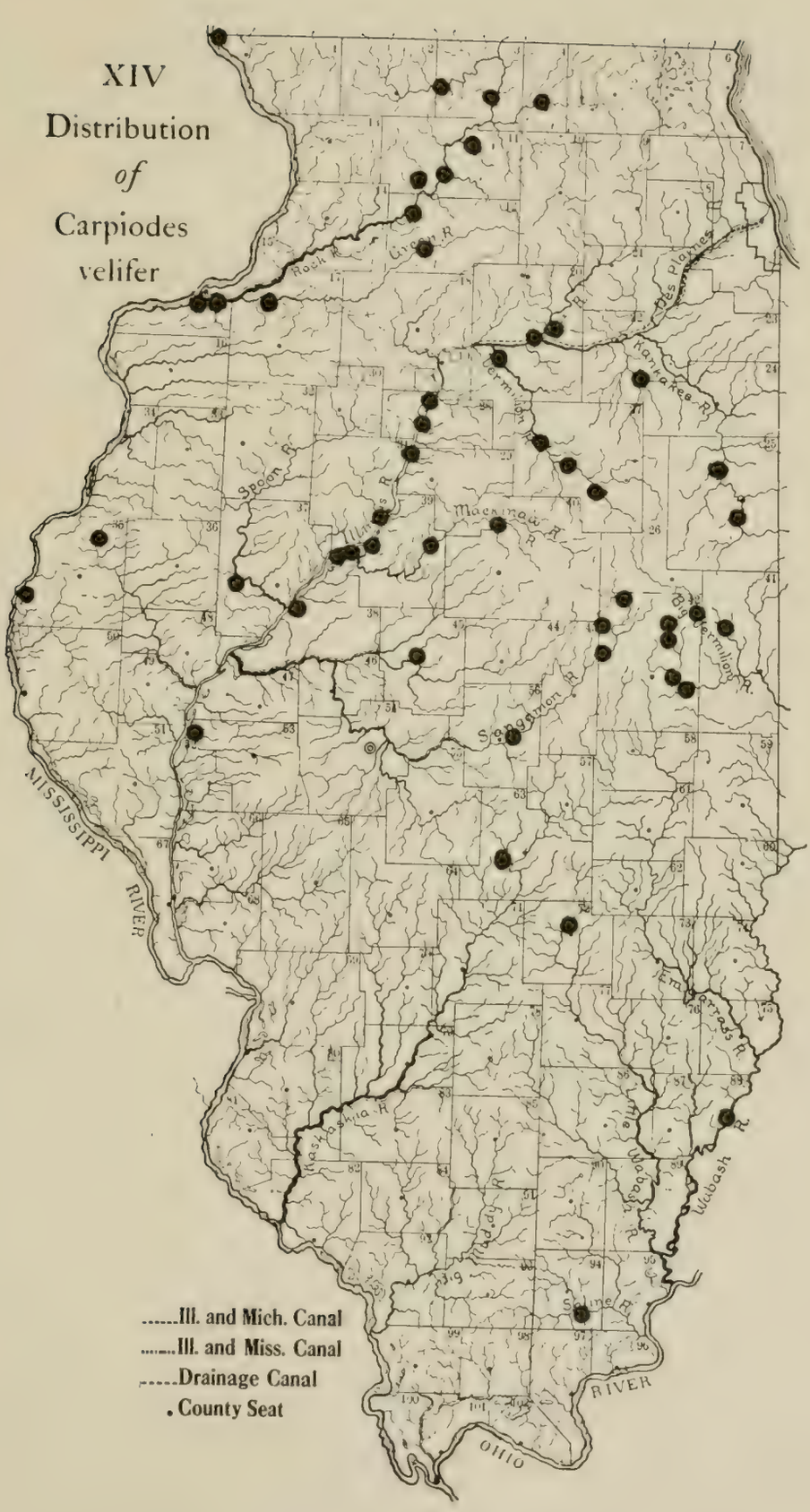
XIV

Distribution *of* Carpiodes velifer



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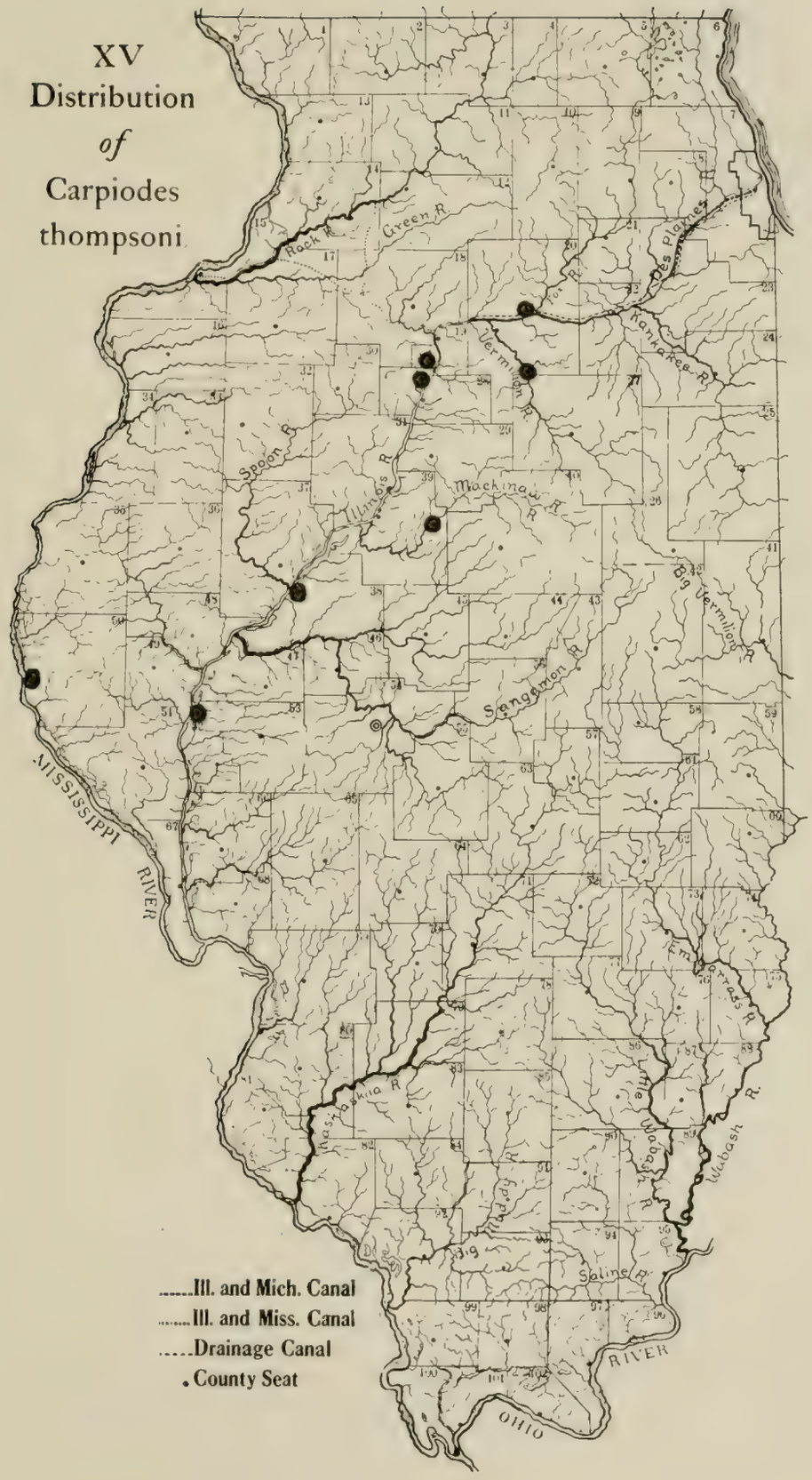
XV
Distribution
of
Carpiodes
thompsoni



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XVI

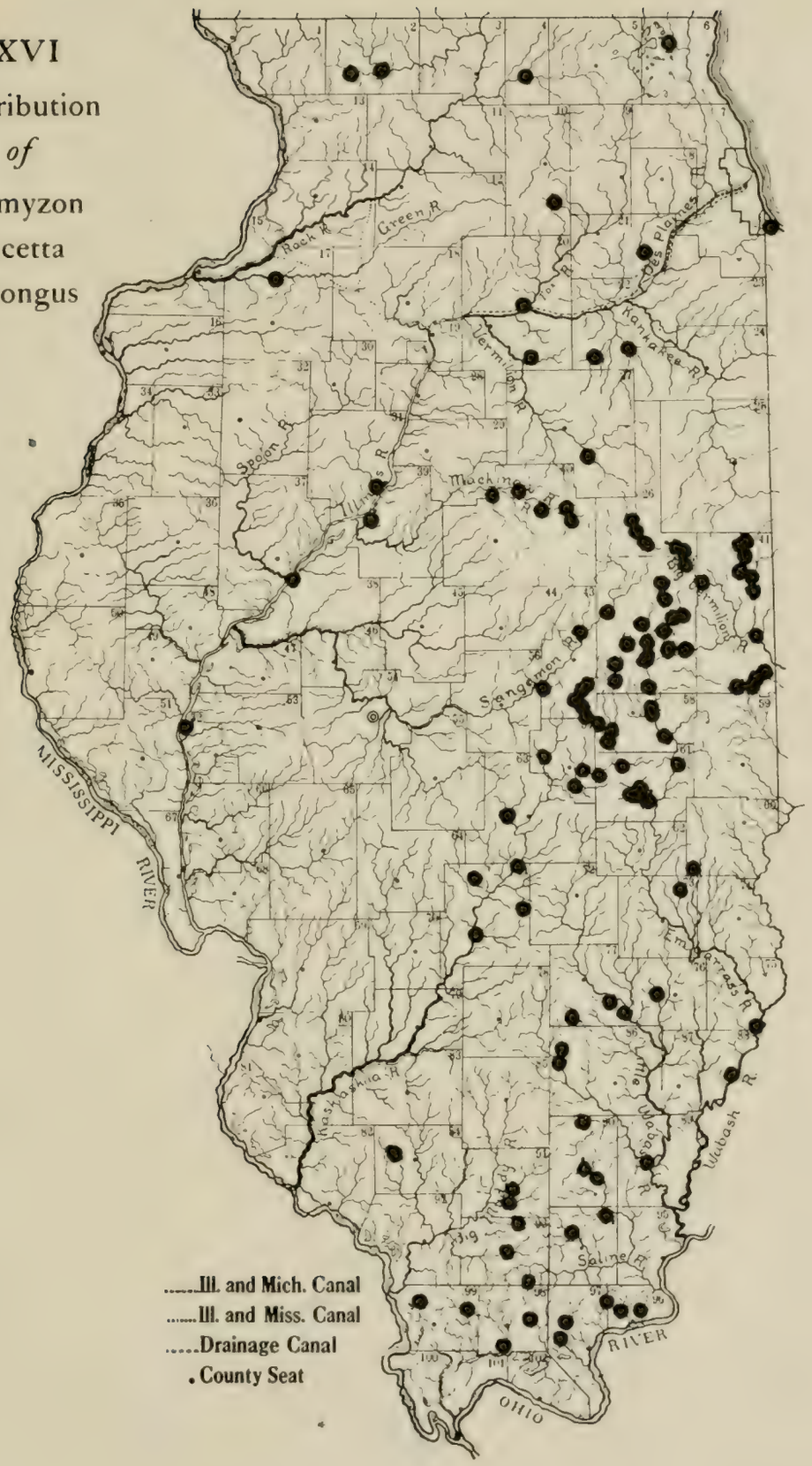
Distribution

of

Erimyzon

sucetta

oblongus



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XVII

Distribution

of

Minytrema

melanops

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XVIII
Distribution
of
Catostomus
commersonii
Rock R
Green R
Des Plaines R
Kankakee R
Vermilion R
Illinois R
Spoon R
Sangamon R
Little Vermilion R
MISSISSIPPI
RIVER
Embarras R
Wabash R
Little Wabash R
Big Muddy R
Saline R
Ohio R
Kaskaskia R
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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OF THE
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XIX
Distribution
of
Catostomus
nigricans
Green R.
Rock R.
Illinois R.
Sangamon R.
Kaskaskia R.
Embarrass R.
Wabash R.
Saline R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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XX

Distribution

of

Moxostoma

anisurum

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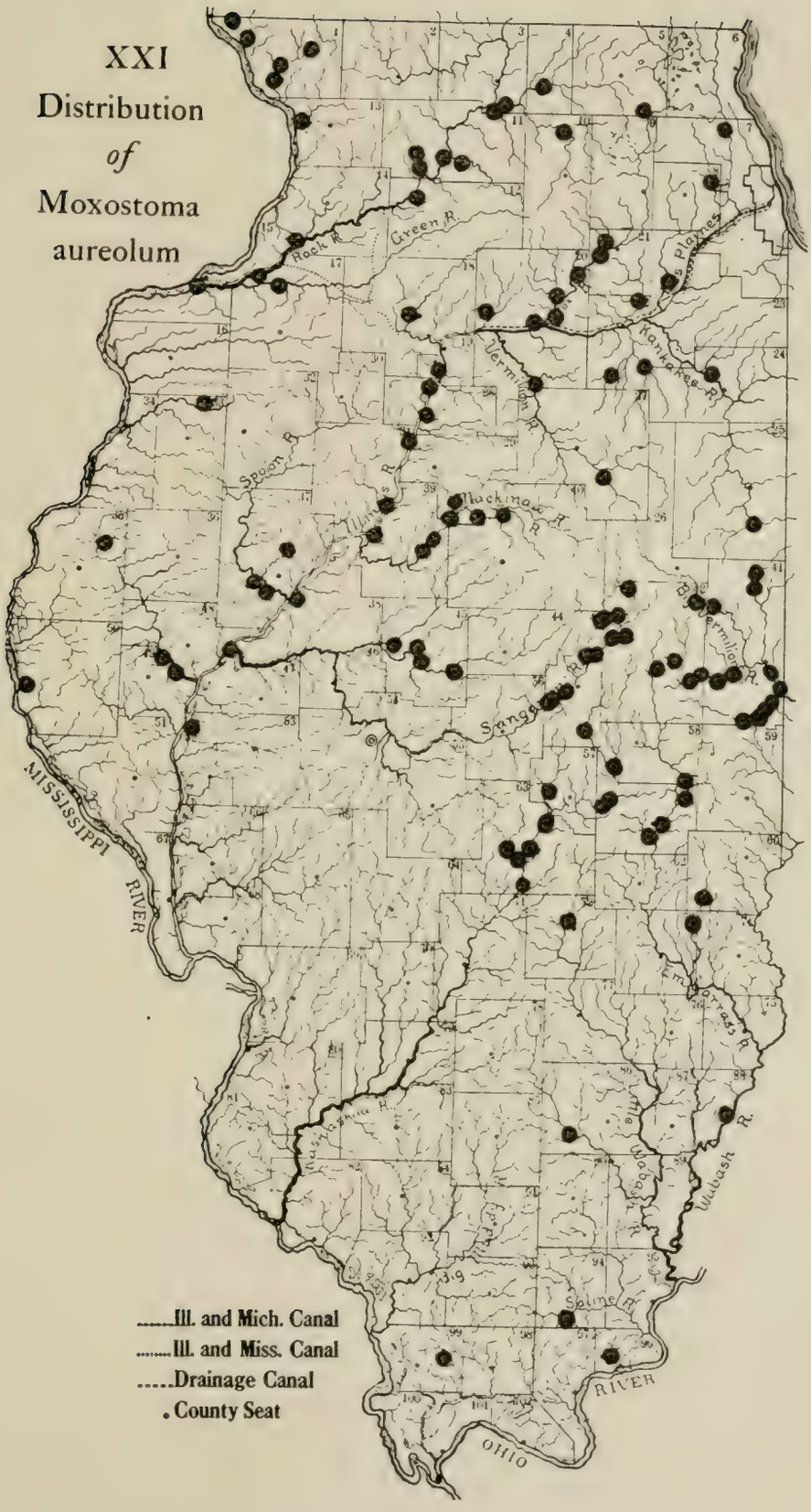
XXI

Distribution

of

Moxostoma

aureolum



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XXII
Distribution
of
Moxostoma
breviceps
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Embarras R.
Kaskaskia R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LIBRARY
OF THE

XXIII
Distribution
of
Campostoma
anomalum
Rock R.
Green R.
Vermilion R.
Sangamon R.
Kaskaskia R.
Big Muddy R.
Saline R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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XXIV
Distribution
of
Chrosomus
erythrogaster

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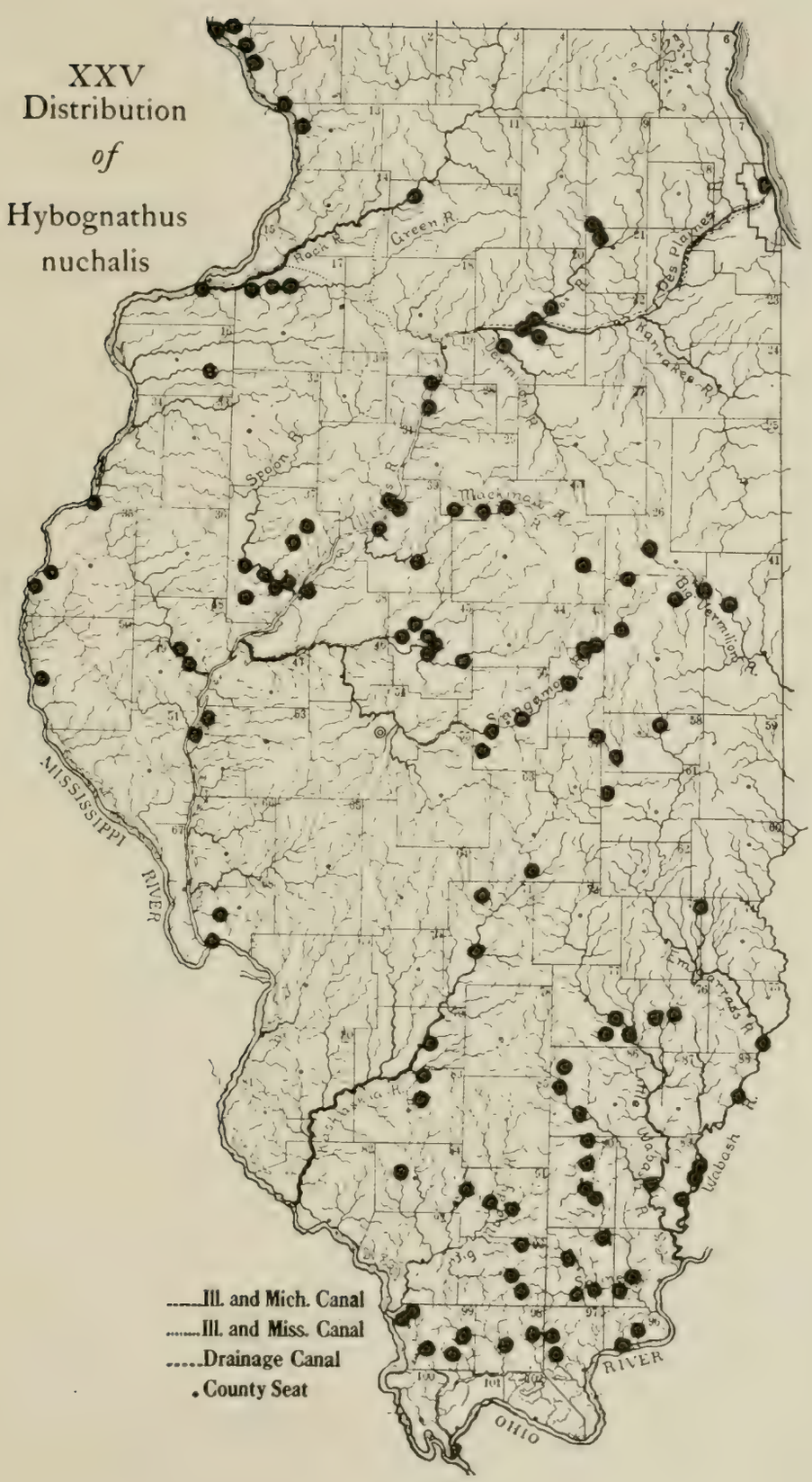
XXV
Distribution
of
Hybognathus
nuchalis



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XXVI

Distribution

of

Hybognathus

nubila

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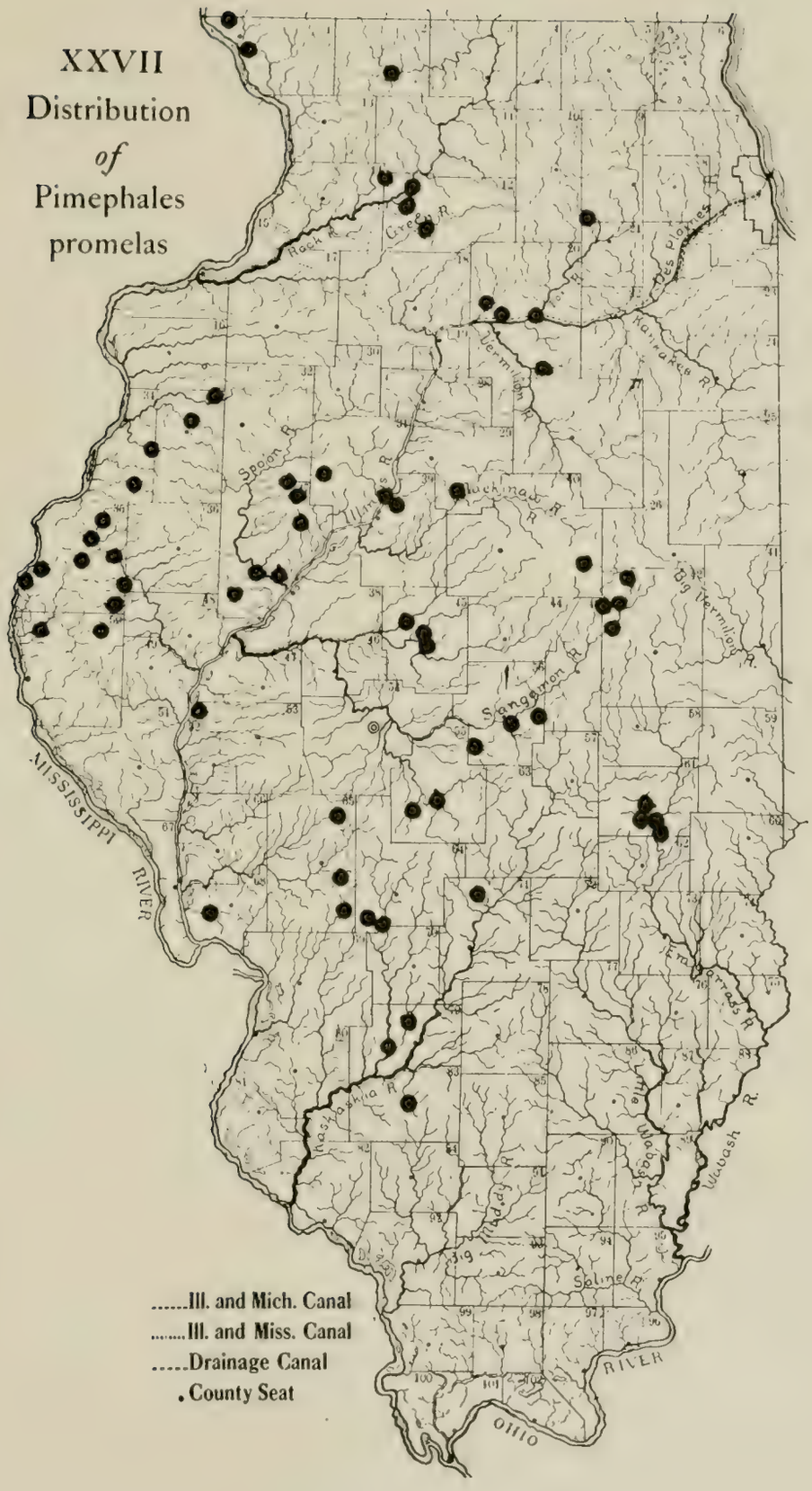
XXVII
Distribution
of
Pimephales
promelas
Rock R.
Green R.
Des Plaines R.
Vermilion R.
Kankakee R.
Spoon R.
Illinois R.
Sangamon R.
Big Vermilion R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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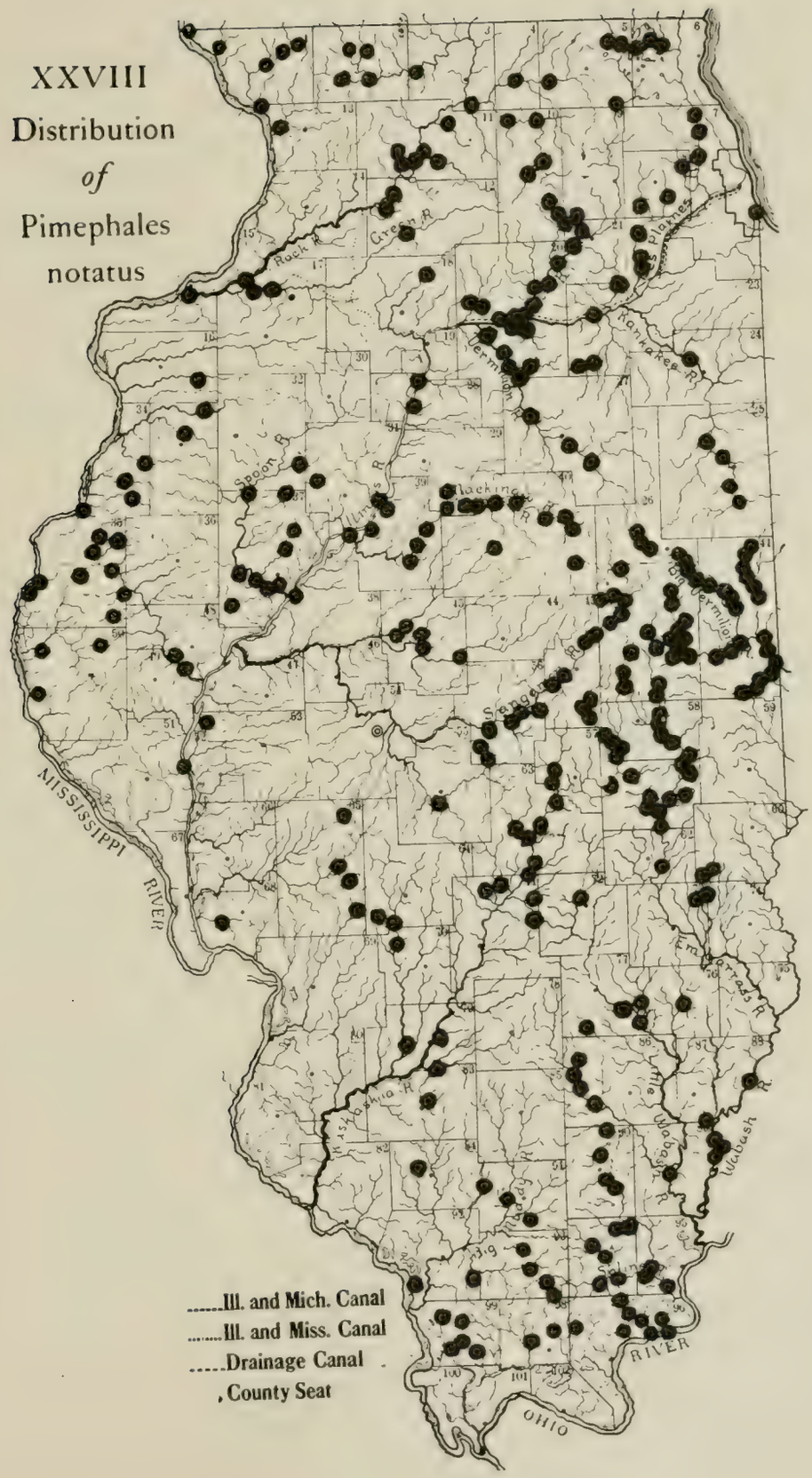
XXVIII

Distribution

of

Pimephales

notatus



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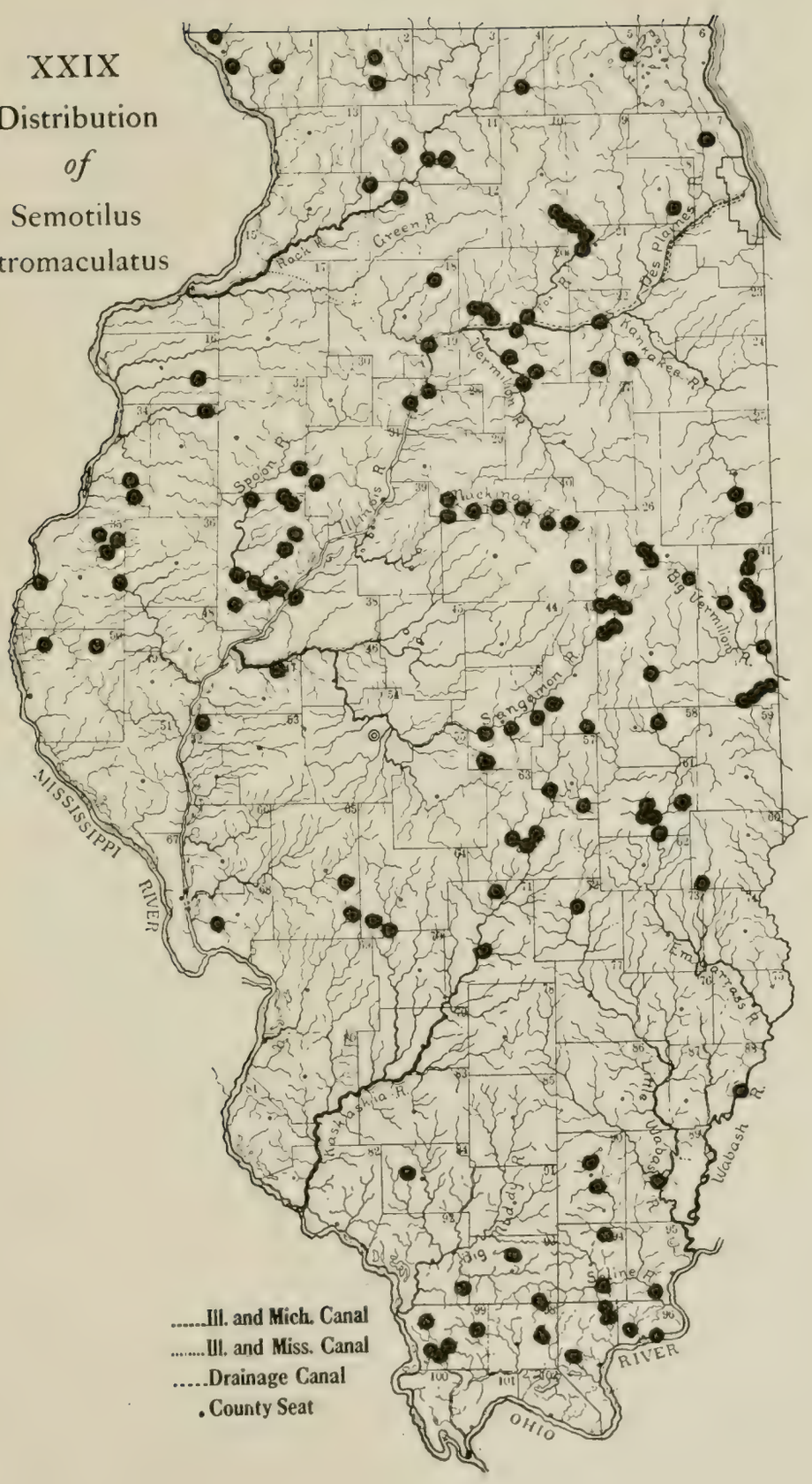
XXIX

Distribution

of

Semotilus

atromaculatus



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XXX

Distribution

of

Opsopœodus

emiliæ

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OF THE

XXXI
Distribution
of
Abramis
crysoleucas

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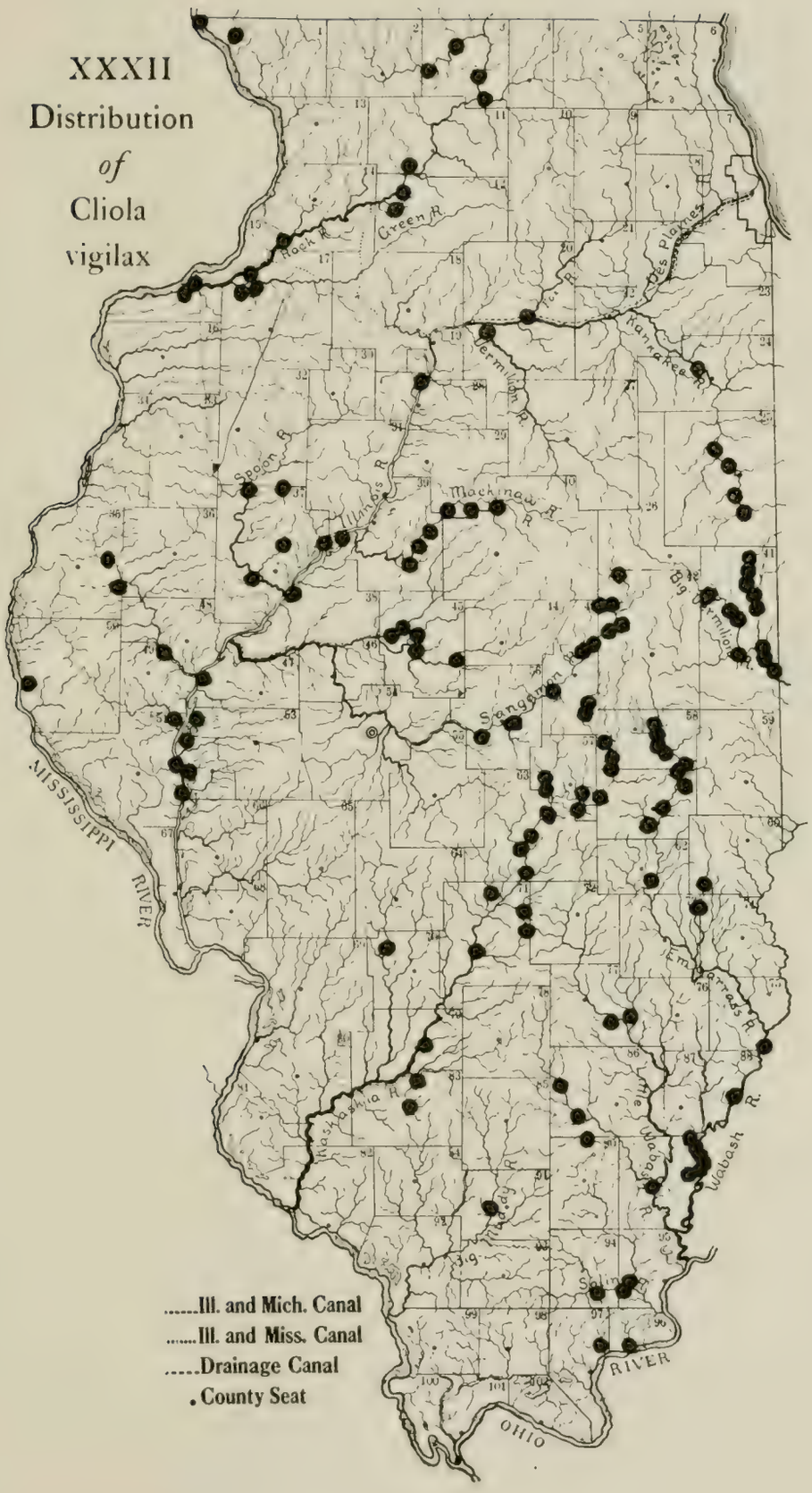
XXXII
Distribution
of
Cliola
vigilax



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XXXIII
Distribution
of
Notropis
cayuga

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XXXIV
Distribution
of
Notropis
heterodon
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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XXXV
Distribution
of
Notropis
blennius

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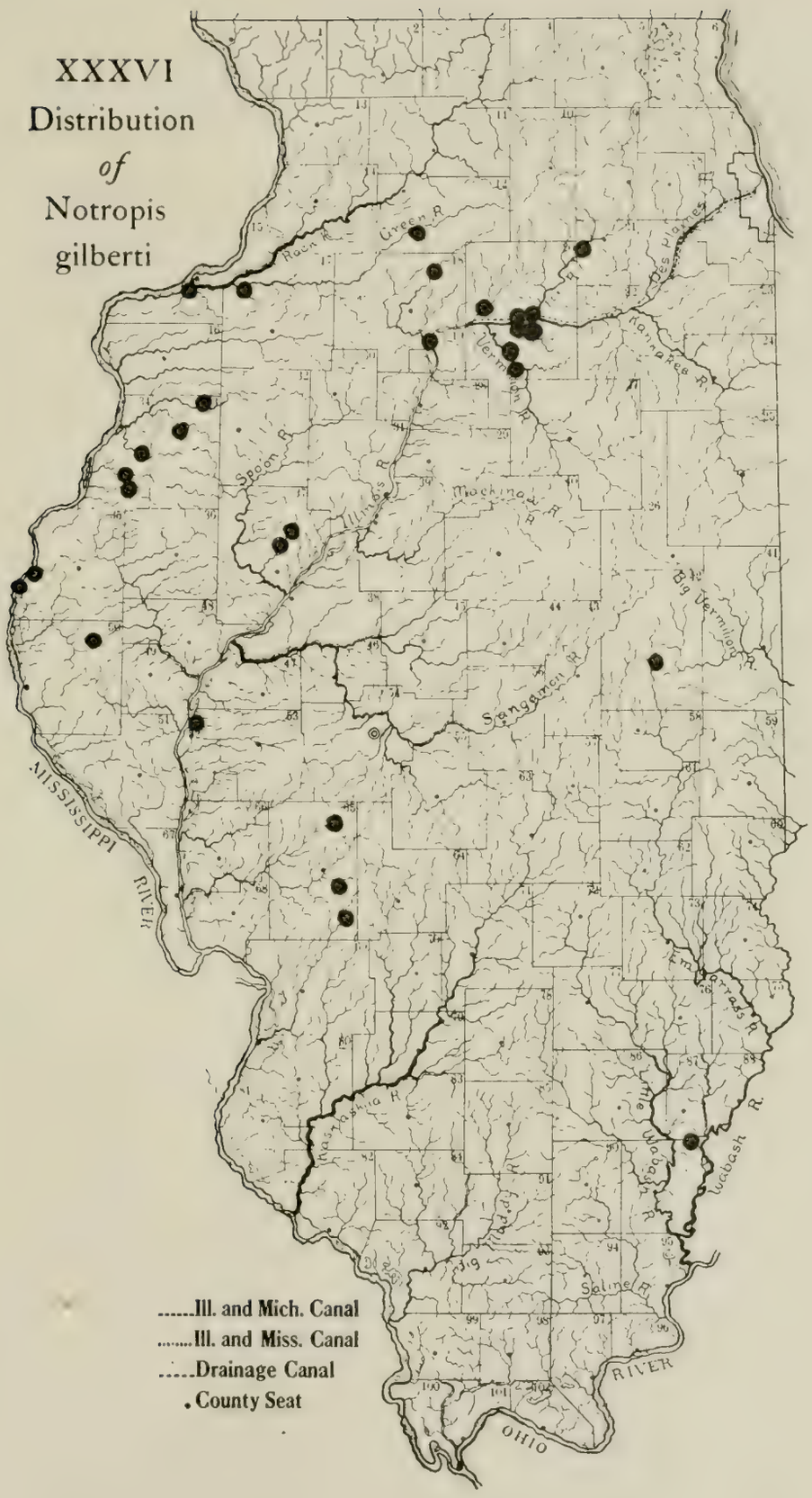
XXXVI
Distribution
of
Notropis
gilberti



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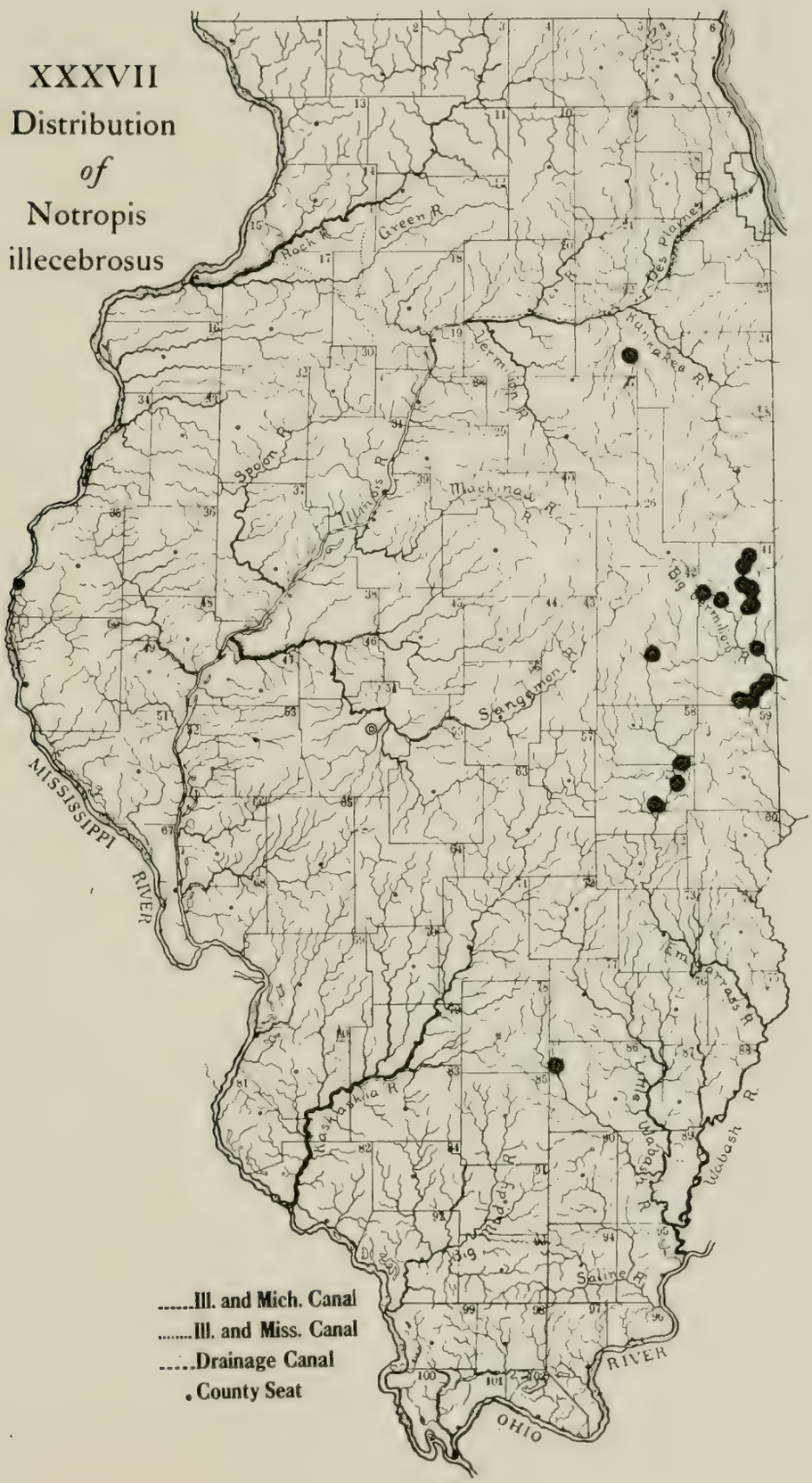
XXXVII
Distribution
of
Notropis
illecebrosus



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XXXVIII
Distribution
of
Notropis
hudsonius
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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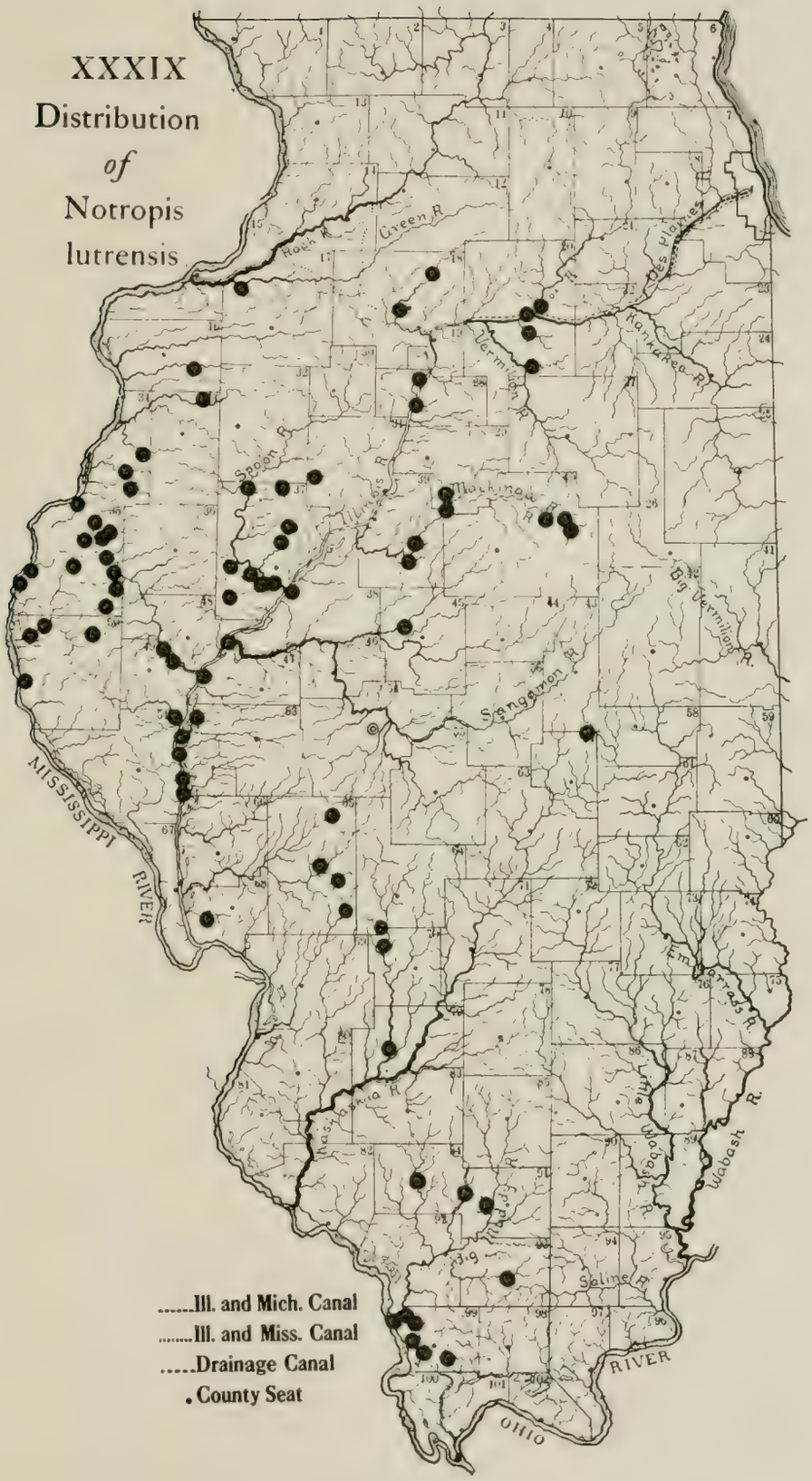
XXXIX

Distribution

of

Notropis

lutrensis



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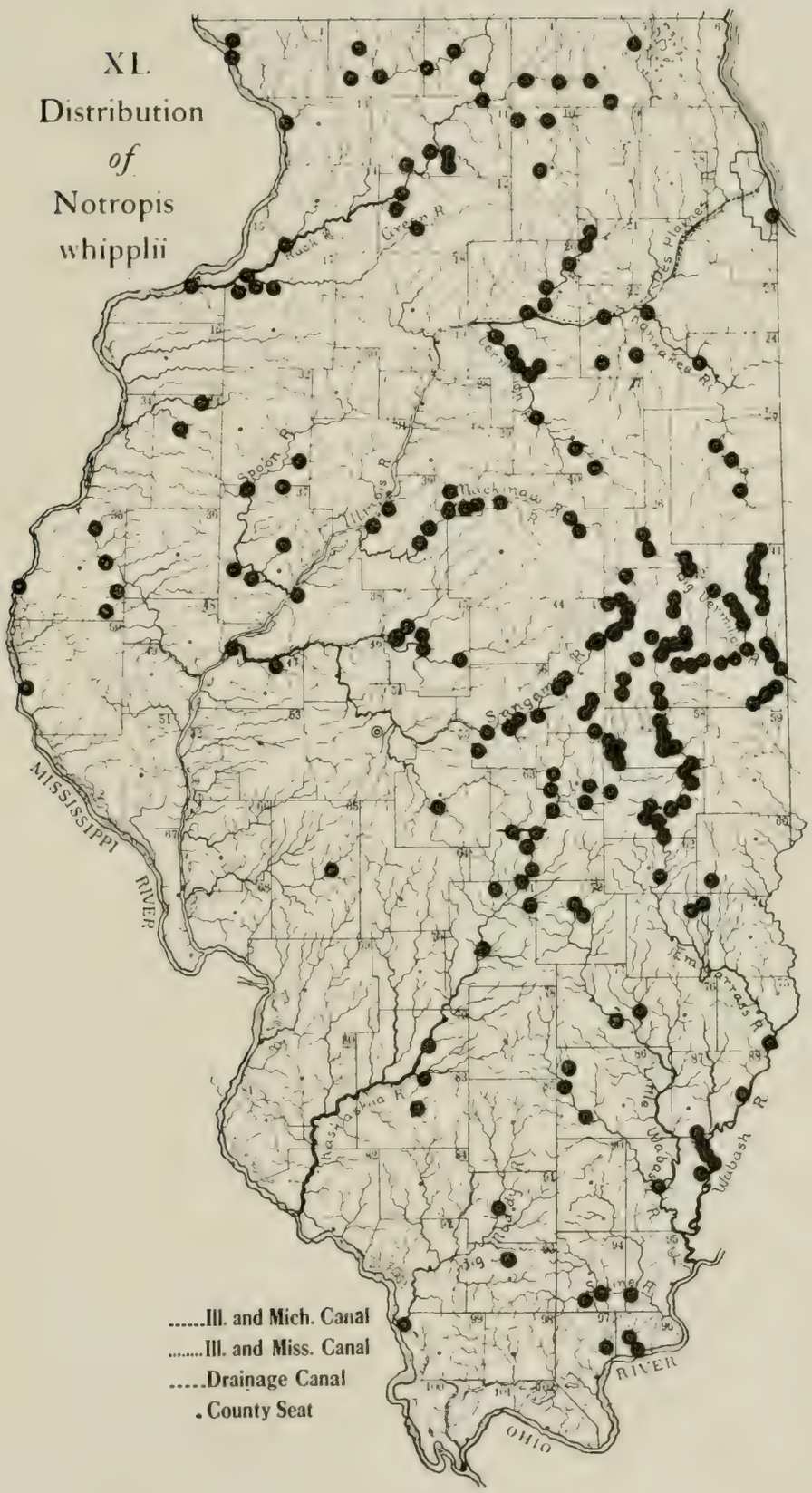
XL.
Distribution
of
Notropis
whipplii
Rock R.
Green R.
Des plaines R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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XLI
Distribution
of
Notropis
cornutus

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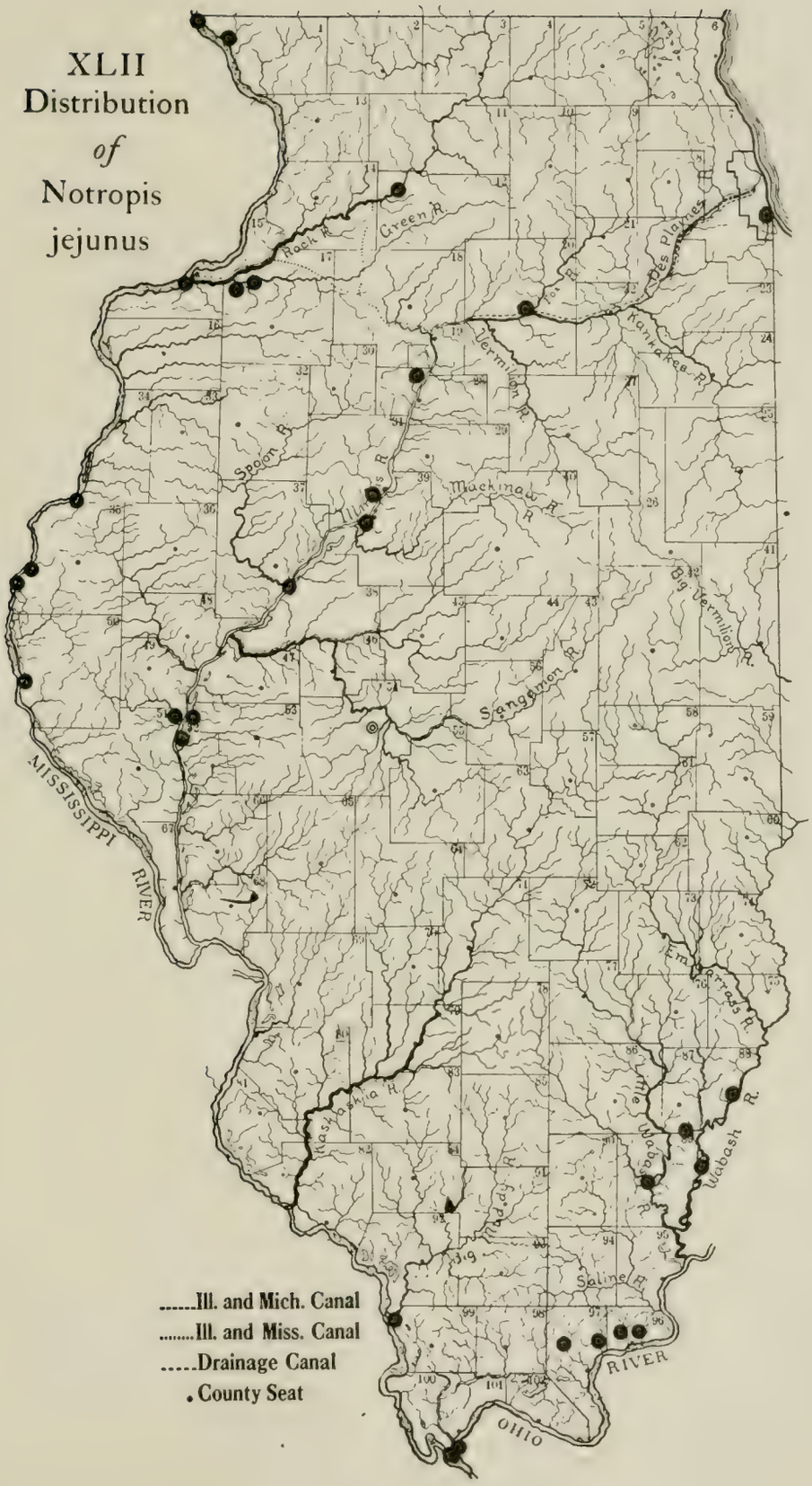
XLII
Distribution
of
Notropis
jejunus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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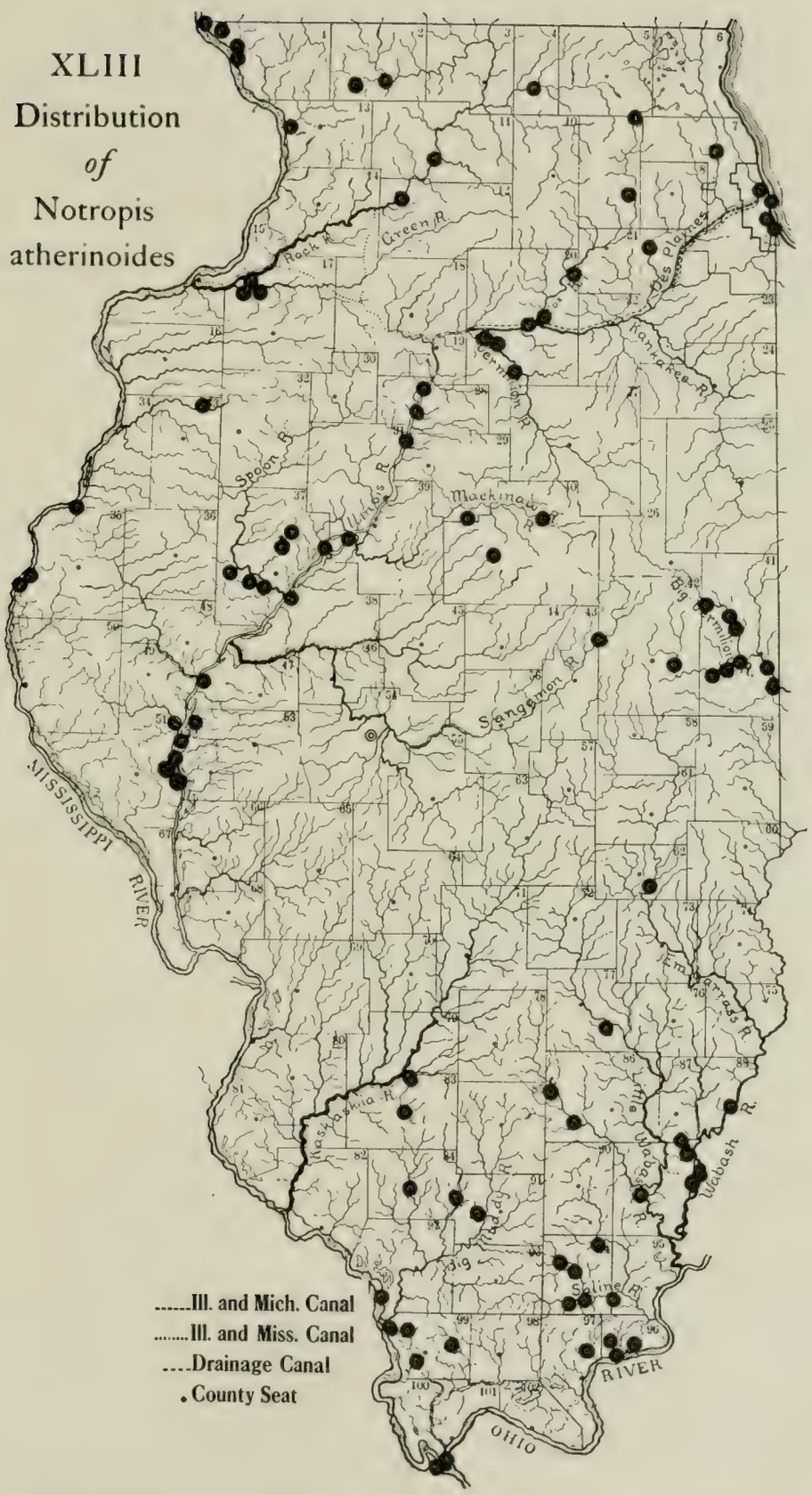
XLIII

Distribution

of

Notropis

atherinoides



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XLIV
Distribution
of
Notropis
rubrifrons
Green R.
Spoon R.
Illinois R.
Mackinaw R.
Vermilion R.
Kaskaskia R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LIBRARY
OF THE

XLV
Distribution
of
Notropis
umbratilis
atripes
Rock R.
Green R.
Illinois R.
Spoon R.
Vermilion R.
Kankakee R.
Sangamon R.
Big Vermilion R.
Mackinaw R.
Embarrass R.
Wabash R.
Big Muddy R.
Saline R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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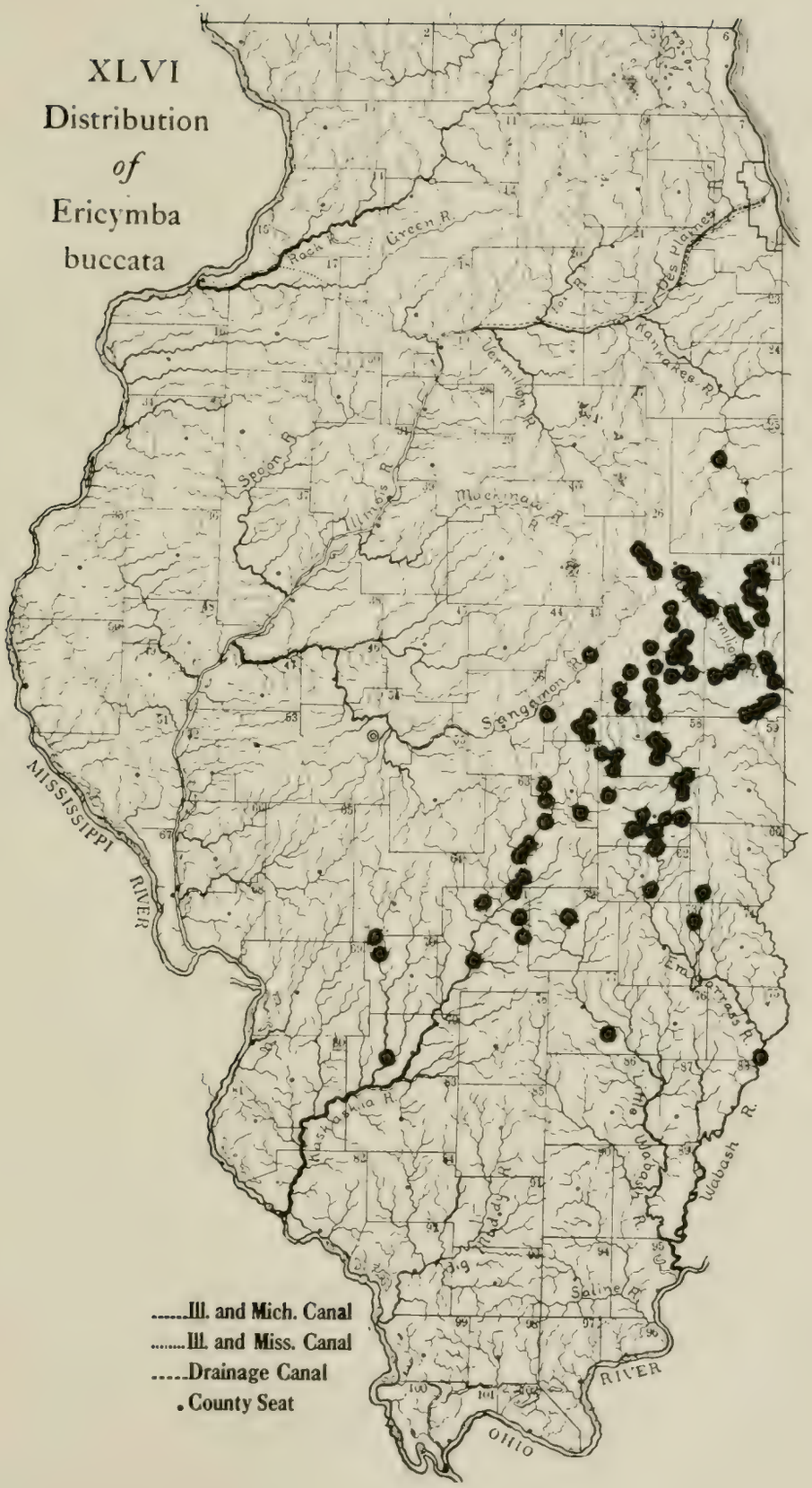
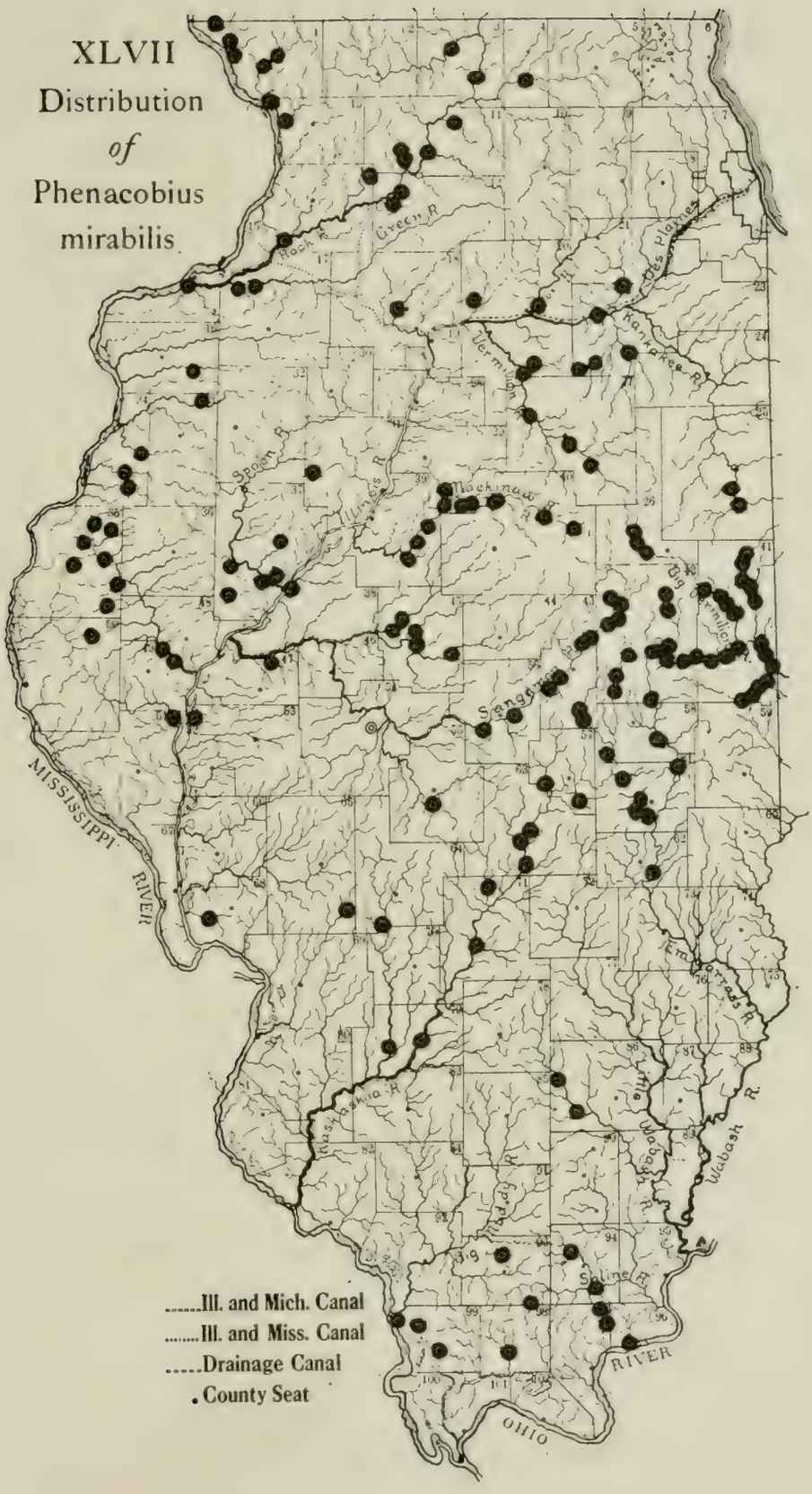

XLVI
Distribution
of
Ericymba
buccata
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Sangamon R.
Vermilion R.
MISSISSIPPI RIVER
Embarras R.
Kaskaskia R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
RIVER
Ohio
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LIBRARY
OF THE

XLVII
Distribution
of
Phenacobius
mirabilis



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XLVIII
Distribution
of
Hybopsis
dissimilis

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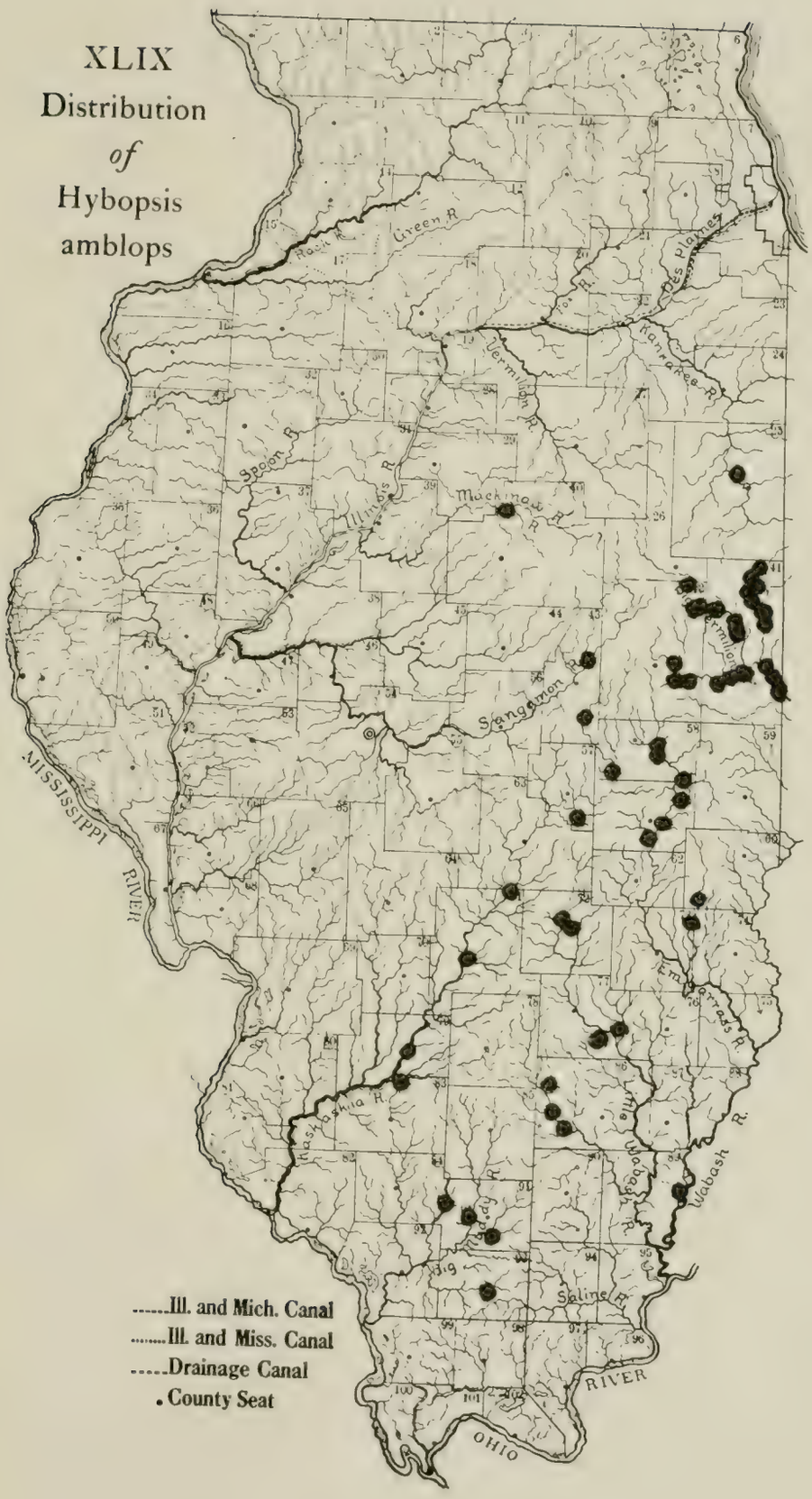
XLIX
Distribution
of
Hybopsis
amblops



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L

Distribution

of

Hybopsis

storerianus

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LI

Distribution

of

Hybopsis

kentuckiensis

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LII
Distribution
of
Ictalurus
punctatus
MISSISSIPPI RIVER
OHIO RIVER
Illinois R.
Kankakee R.
Sangamon R.
Embarras R.
Wabash R.
Saline R.
Big Muddy R.
Kaskaskia R.
Spoon R.
Vermilion R.
Des Plaines R.
Rock R.
Green R.
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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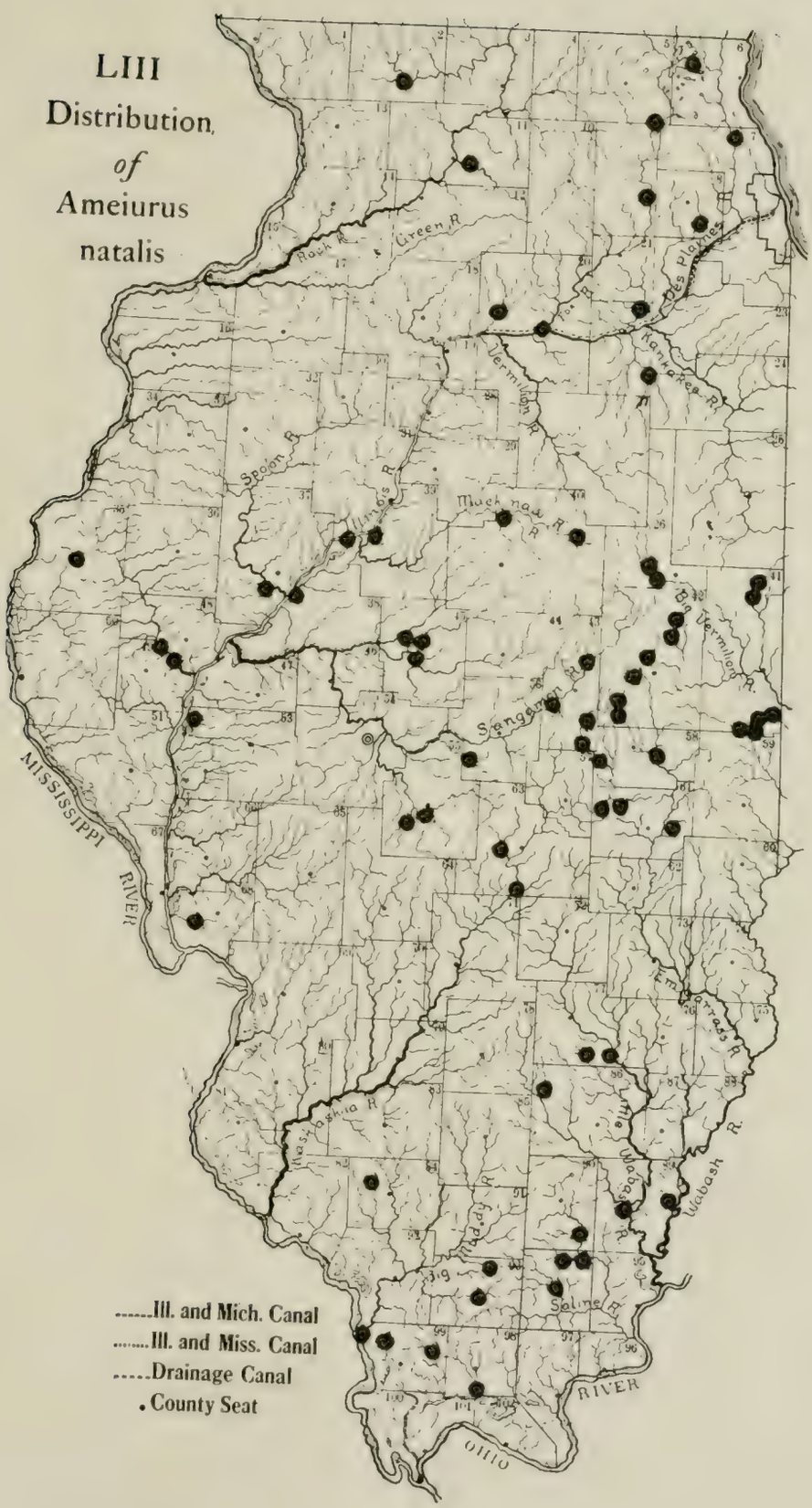
LIII
Distribution
of
Ameiurus
natalis
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
Big Muddy R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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LIV
Distribution
of
Ameiurus
nebulosus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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LV
Distribution
of
Ameiurus
melas
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

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LVI
Distribution
of
Leptops
olivaris
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarrass R.
Wabash R.
Little Wabash R.
Saline R.
Big Muddy R.
Kaskaskia R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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LVII

Distribution

of

Noturus

flavus

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LVIII

Distribution

of

Schilbeodes

gyrinus

LIBRARY
OF THE

LIX

Distribution

of

Schilbeodes

miurus

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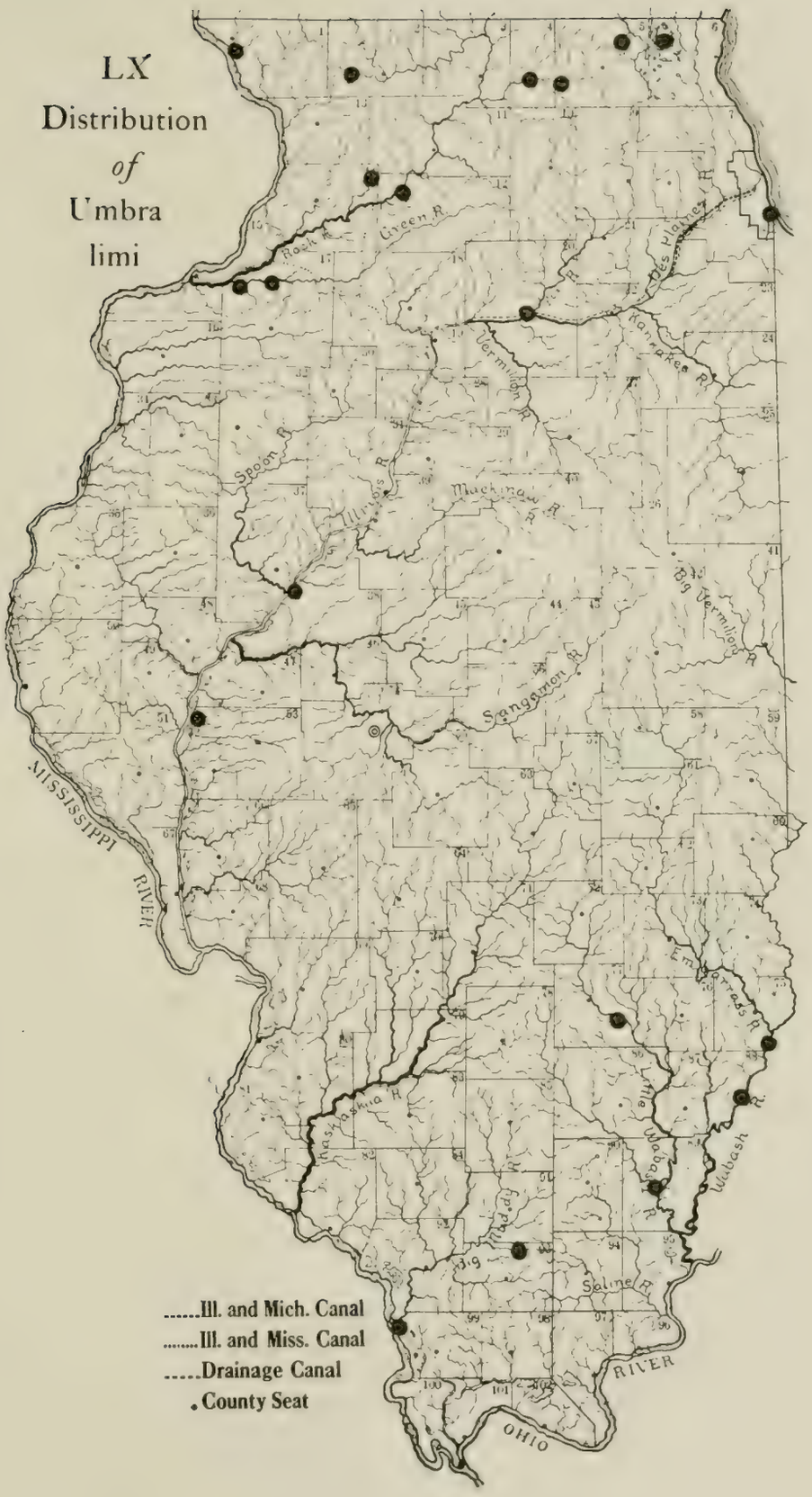
LX

Distribution

of

Umbra

limi



LIBRARY
OF THE

LXI
Distribution
of
Esox
vermiculatus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
. County Seat

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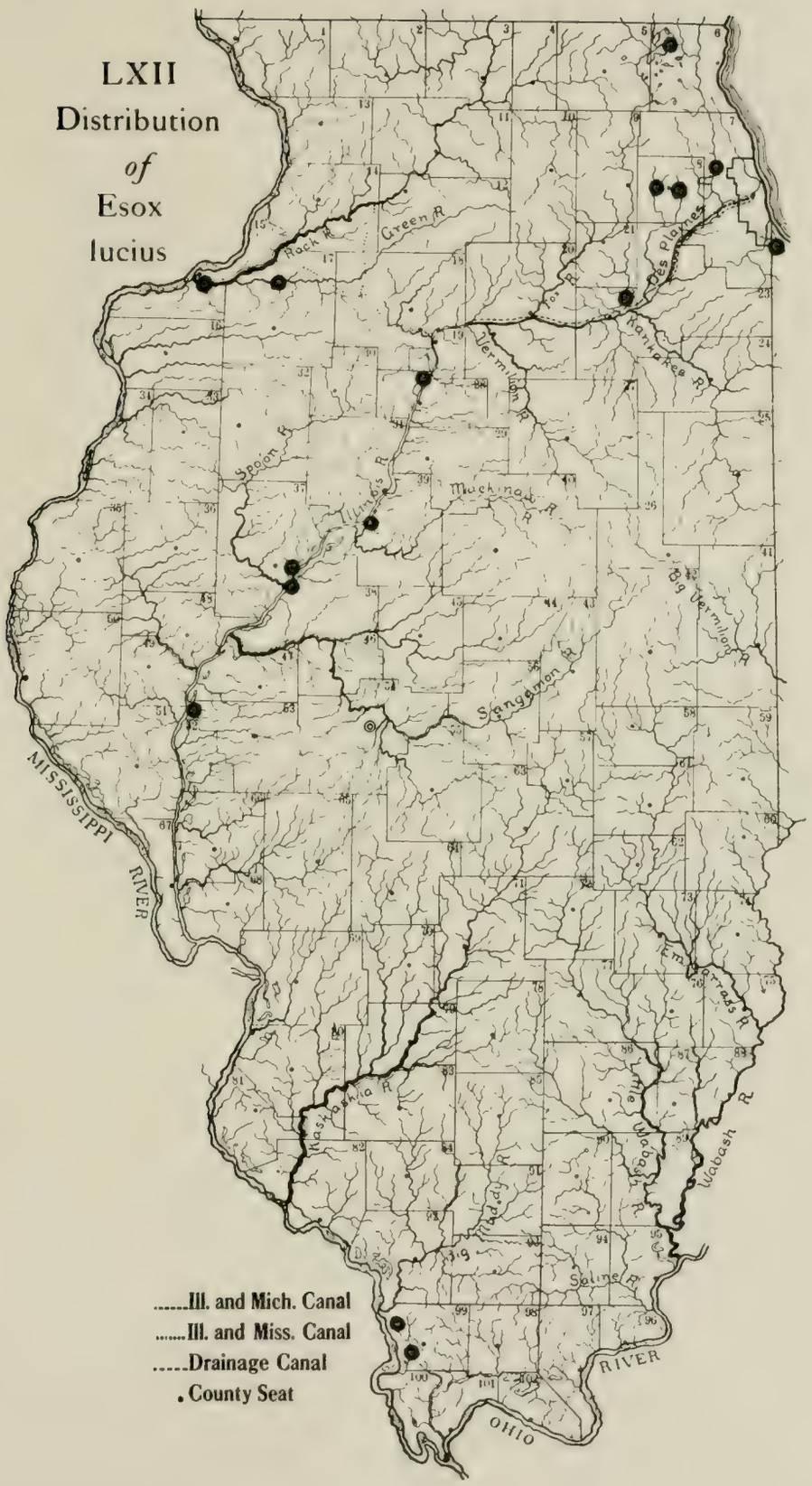
LXII
Distribution
of
Esox
lucius
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Kaskaskia R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
RIVER
OHIO
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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LXIII
Distribution
of
Fundulus
diaphanus
menona
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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LXIV

Distribution

of

Fundulus

dispar

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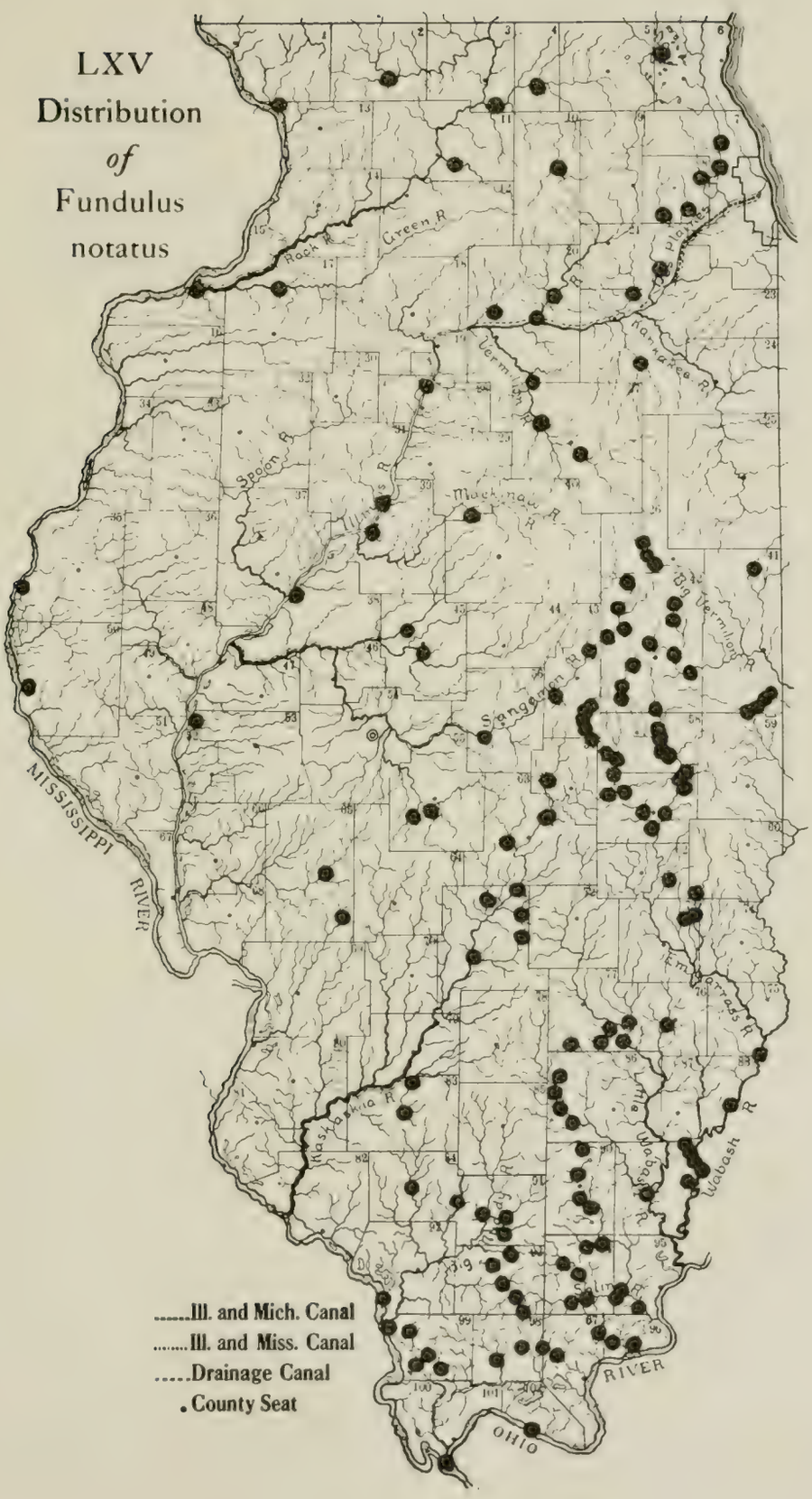
OF THE
UNIVERSITY OF


LXV
Distribution
of
Fundulus
notatus
Rock R.
Green R.
Vermilion R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Kaskaskia R.
Saline R.
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

LIBRARY
OF THE

LXVI
Distribution
of
Gambusia
affinis
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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LXVII
Distribution
of
Percopsis
guttatus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Kaskaskia R.
Muddy R.
Big Saline R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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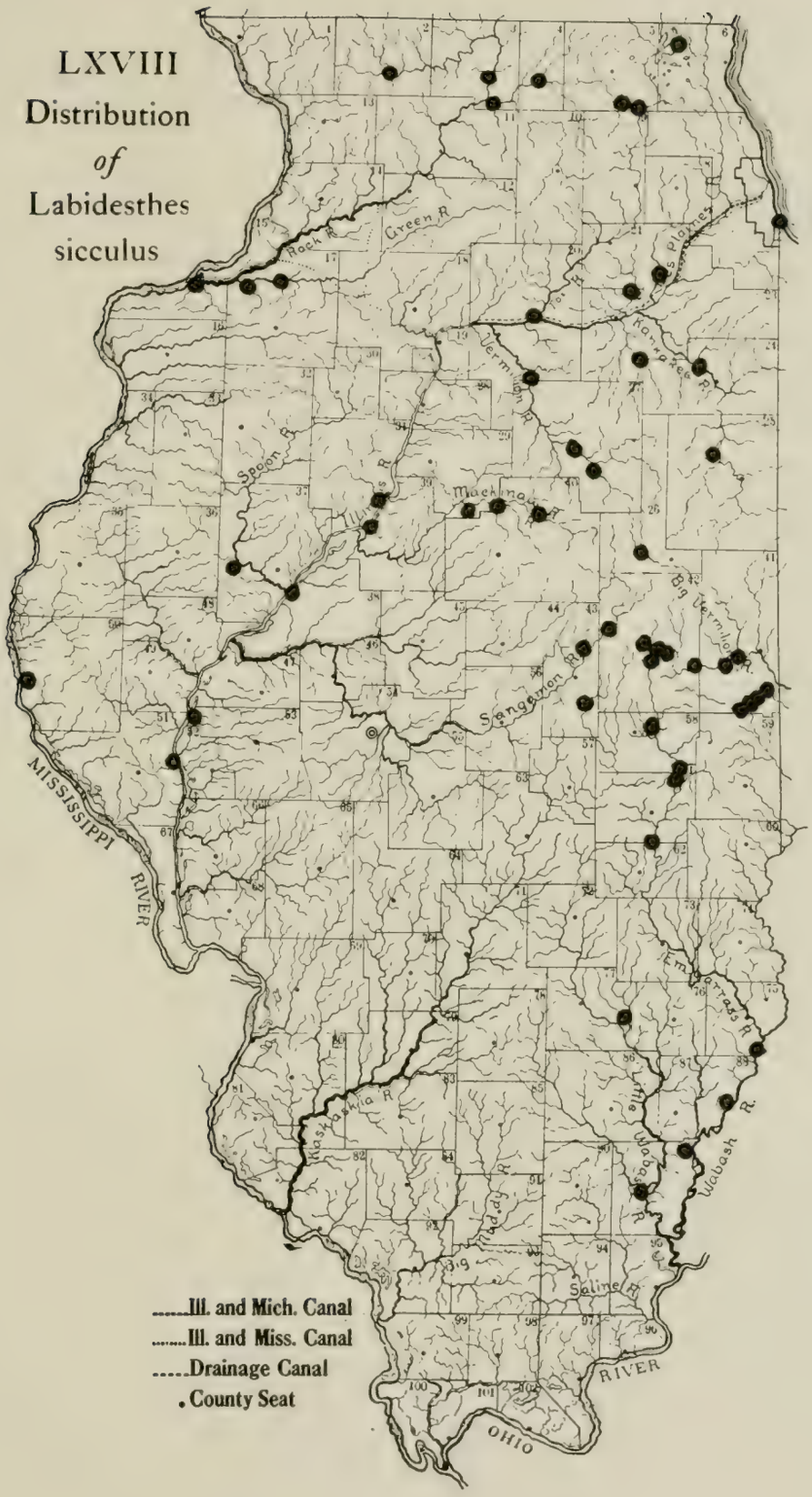
LXVIII

Distribution

of

Labidesthes

sicculus



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LXIX
Distribution
of
Aphredoderus
sayanus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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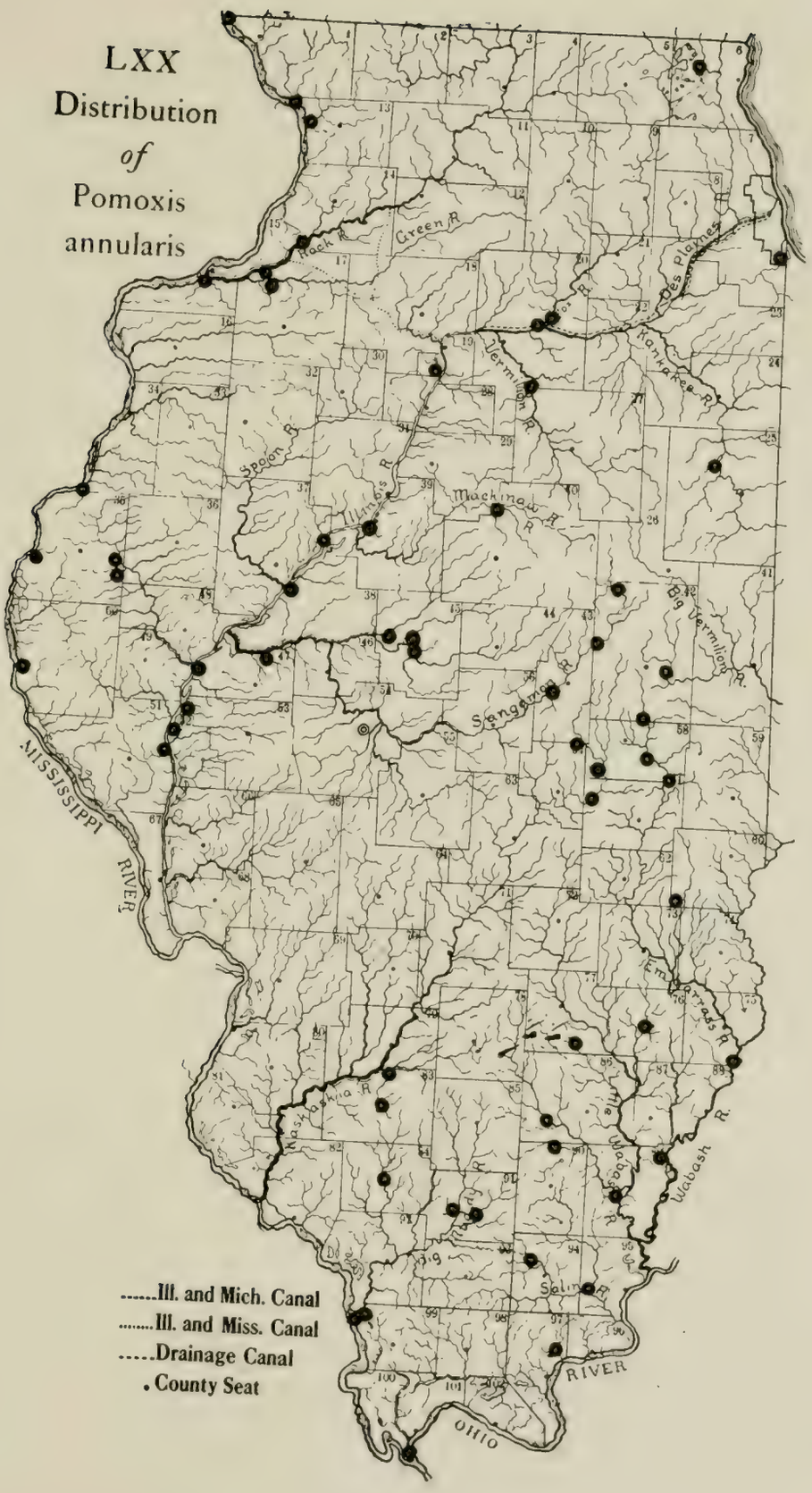
LXX
Distribution
of
Pomoxis
annularis
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
• County Seat

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LXXI
Distribution
of
Pomoxis
sparoides

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LXXII
Distribution
of
Centrarchus
macropterus

LIBRARY
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LXXIII
Distribution
of
Ambloplites
rupestris

LIBRARY
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LXXIV
Distribution
of
Chænobryttus
gulosus

LIBRARY
OF THE
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LXXV
Distribution
of
Lepomis
miniatus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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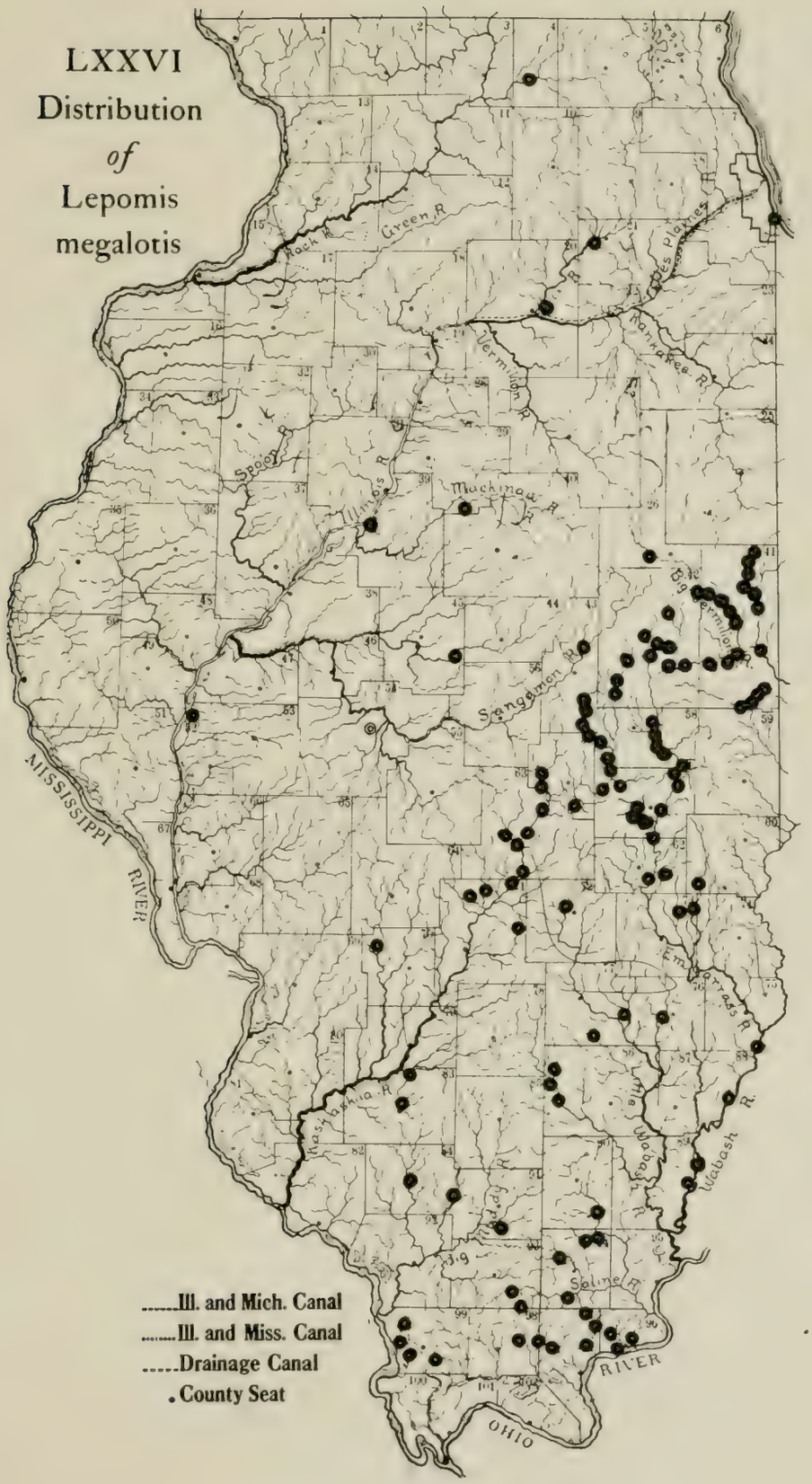
LXXVI
Distribution
of
Lepomis
megalotis
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Kaskaskia R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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LXXVII
Distribution
of
Lepomis
humilis

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LXXVIII
Distribution
of
Lepomis
pallidus
Rock R.
Green R.
Des plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
Big
RIVER
OHIO
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
•County Seat

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LXXIX.
Distribution
of
Eupomotis
gibbosus

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LXXX
Distribution
of
Micropterus
dolomieu

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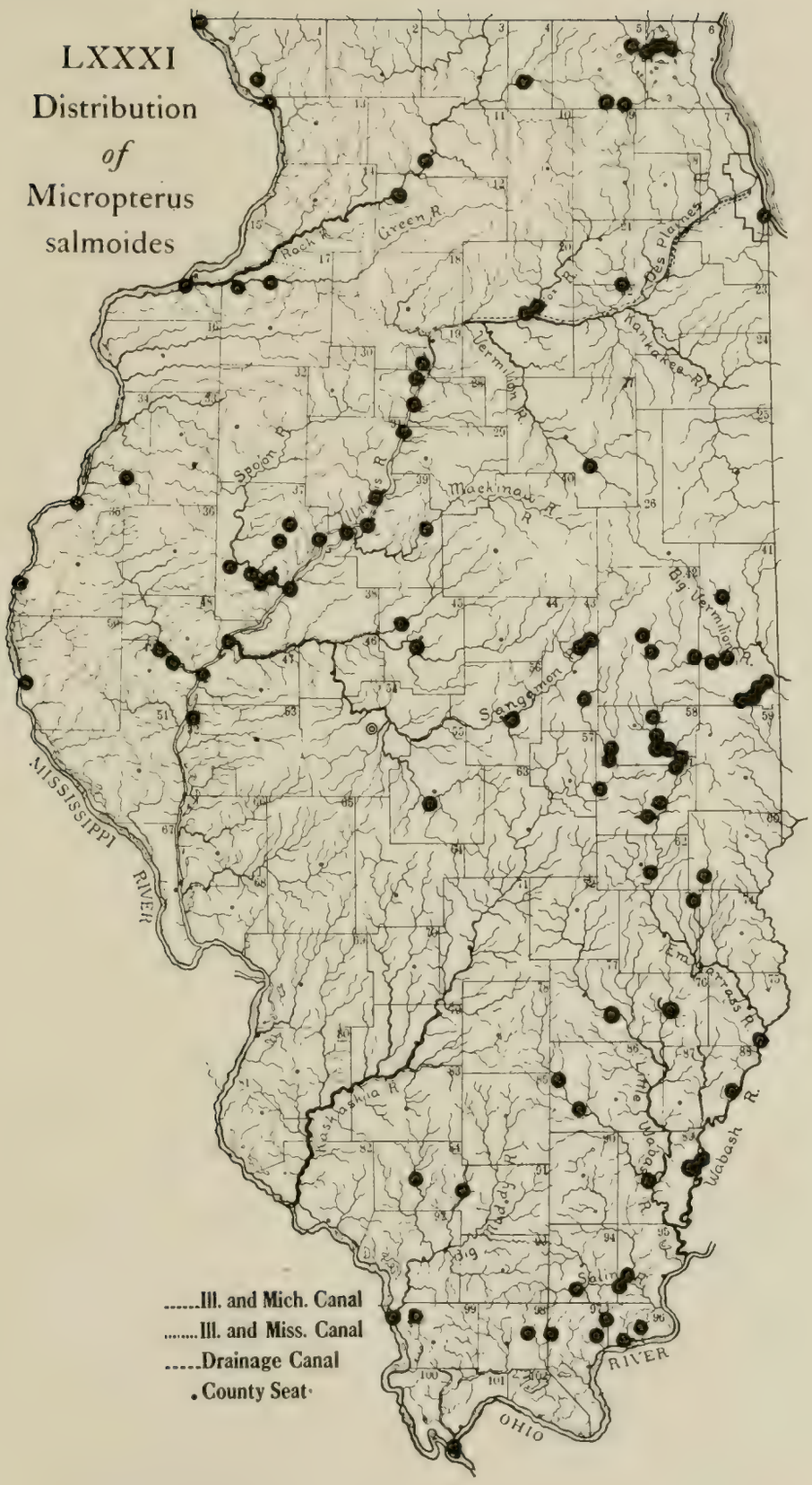
LXXXI

Distribution

of

Micropterus

salmoides



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LXXXII
Distribution
of
Stizostedion
vitreum

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LXXXIII
Distribution
of
Stizostedion
canadense
griseum

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LXXXIV
Distribution
of
Perca
flavescens
Rock R.
Green R.
Des plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
RIVER
OHIO
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
• County Seat

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LXXXV
Distribution
of
Percina
caprodes

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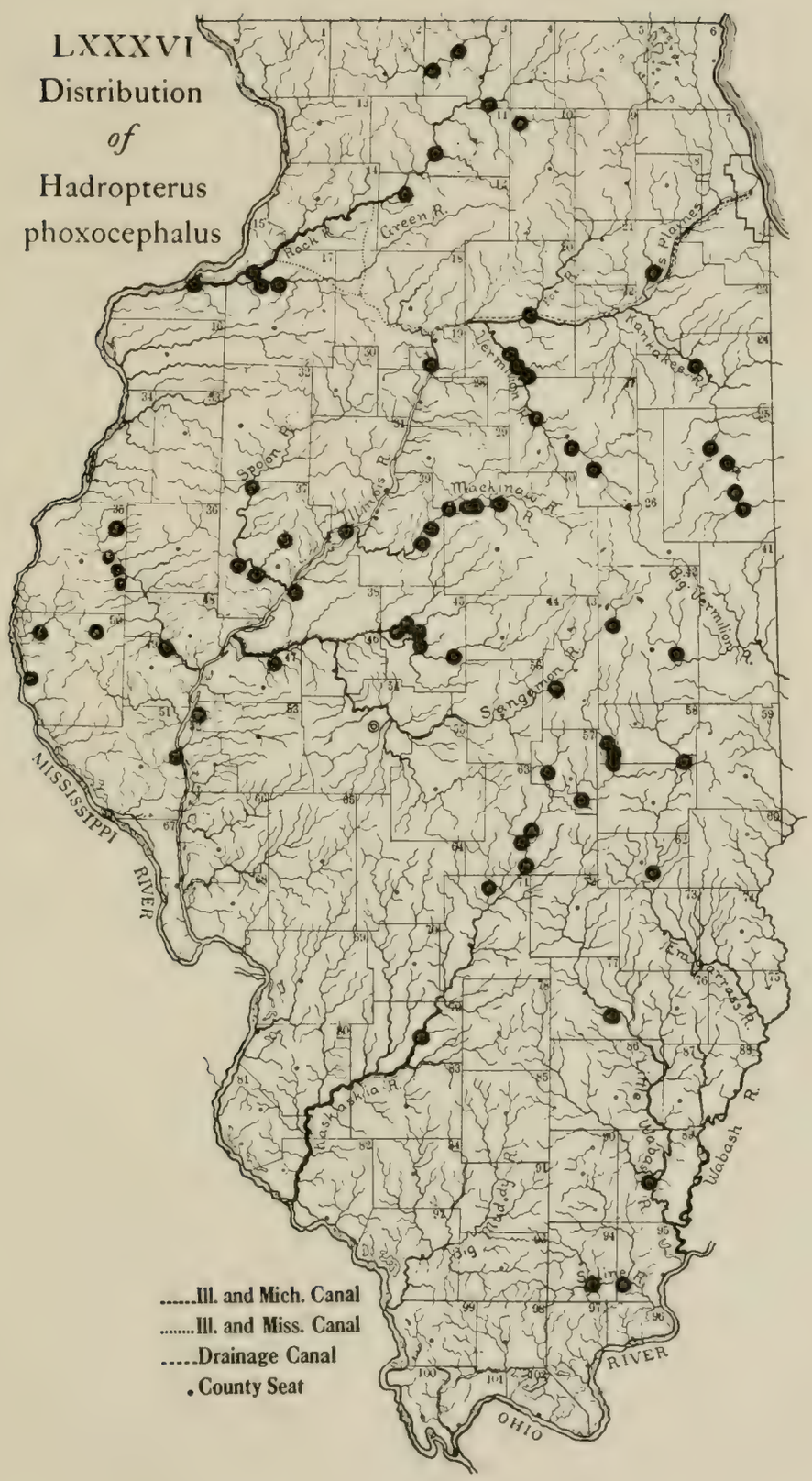
LXXXVI
Distribution
of
Hadropterus
phoxocephalus



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LXXXVII
Distribution
of
Hadropterus
aspro

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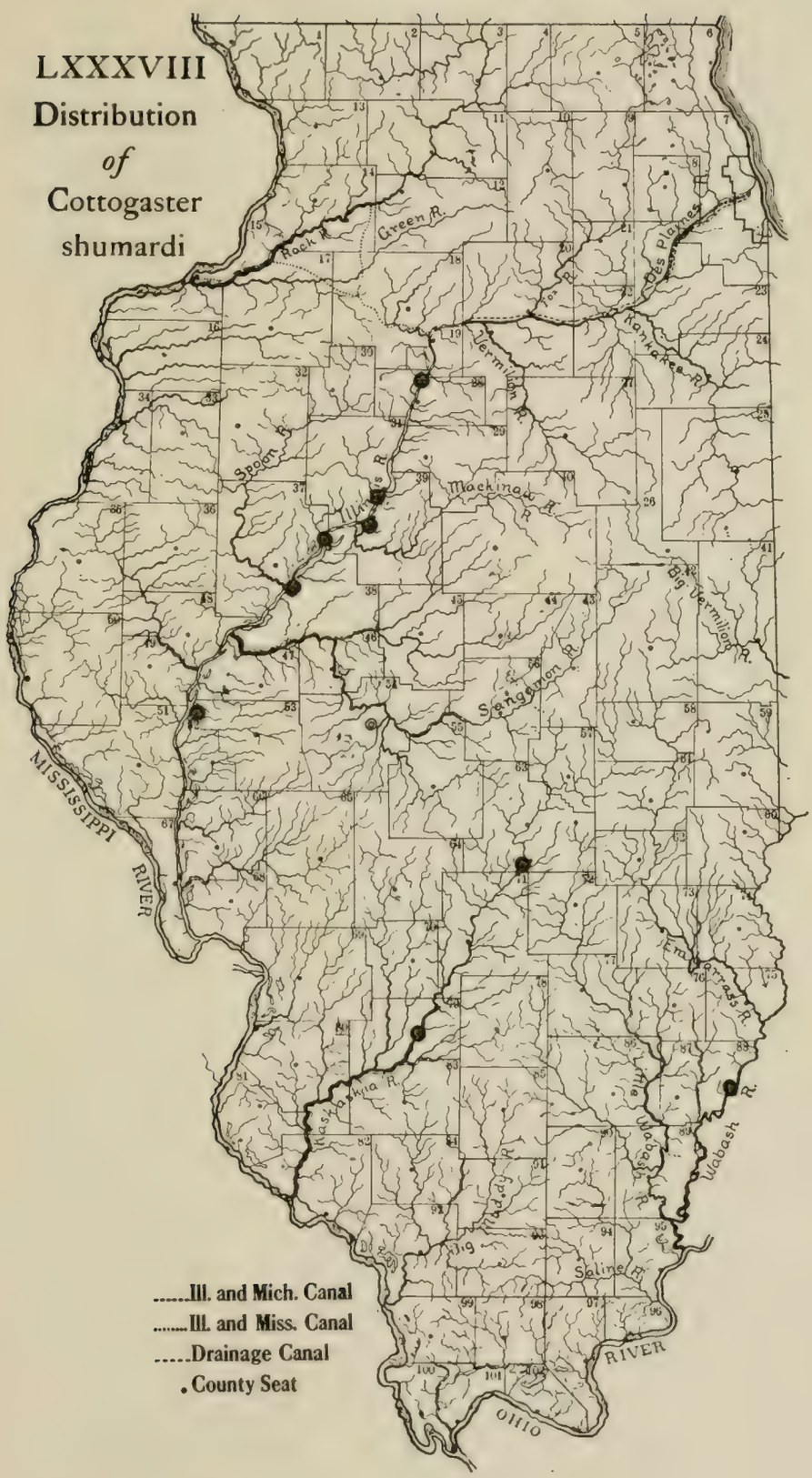
LXXXVIII
Distribution
of
Cottogaster
shumardi
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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LXXXIX
Distribution
of
Diplesion
blennioides

LIBRARY
OF THE
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XC
Distribution
of
Boleosoma
nigrum
Rock R
Green R
Kankakee R
Spoon R
Illinois R
Mackinaw R
Big Vermilion R
Sangamon R
Embarras R
Little Wabash R
Big Muddy R
Saline R
Wabash R
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
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XCI
Distribution
of
Boleosoma
camurum

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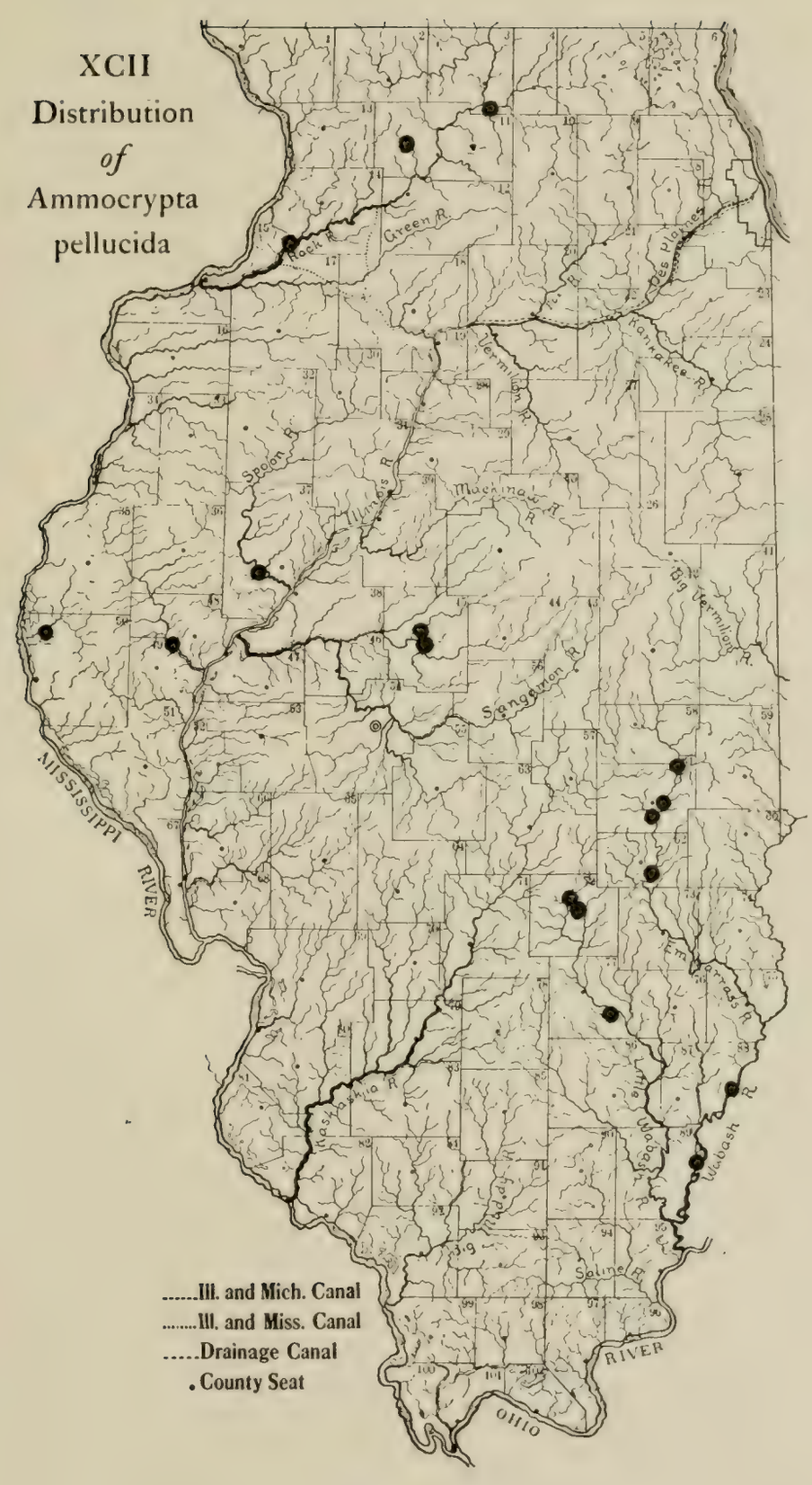
XCII

Distribution

of

Ammocrypta

pellucida



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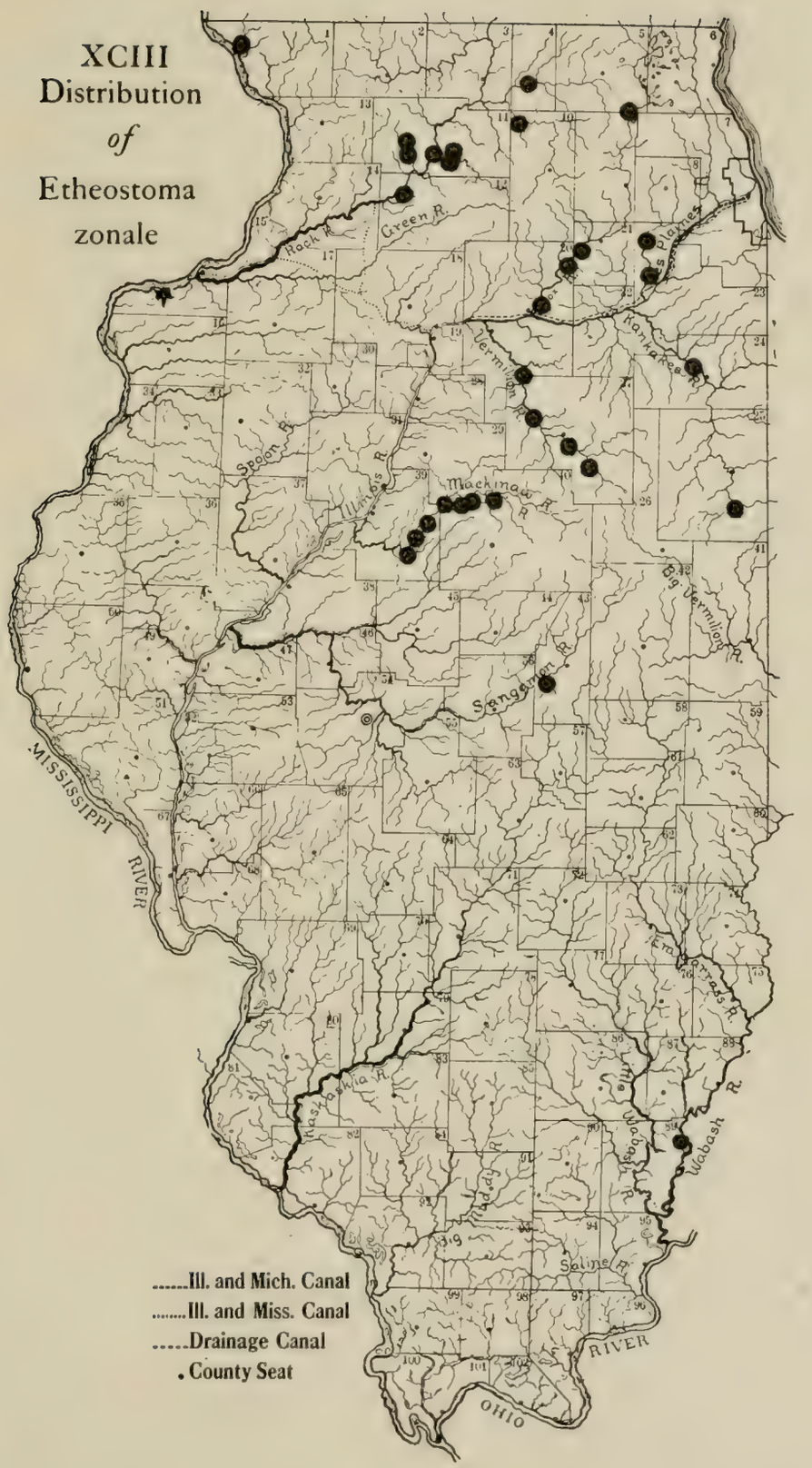
XCIII
Distribution
of
Etheostoma
zonale
Green R.
Rock R.
Vermilion R.
Kankakee R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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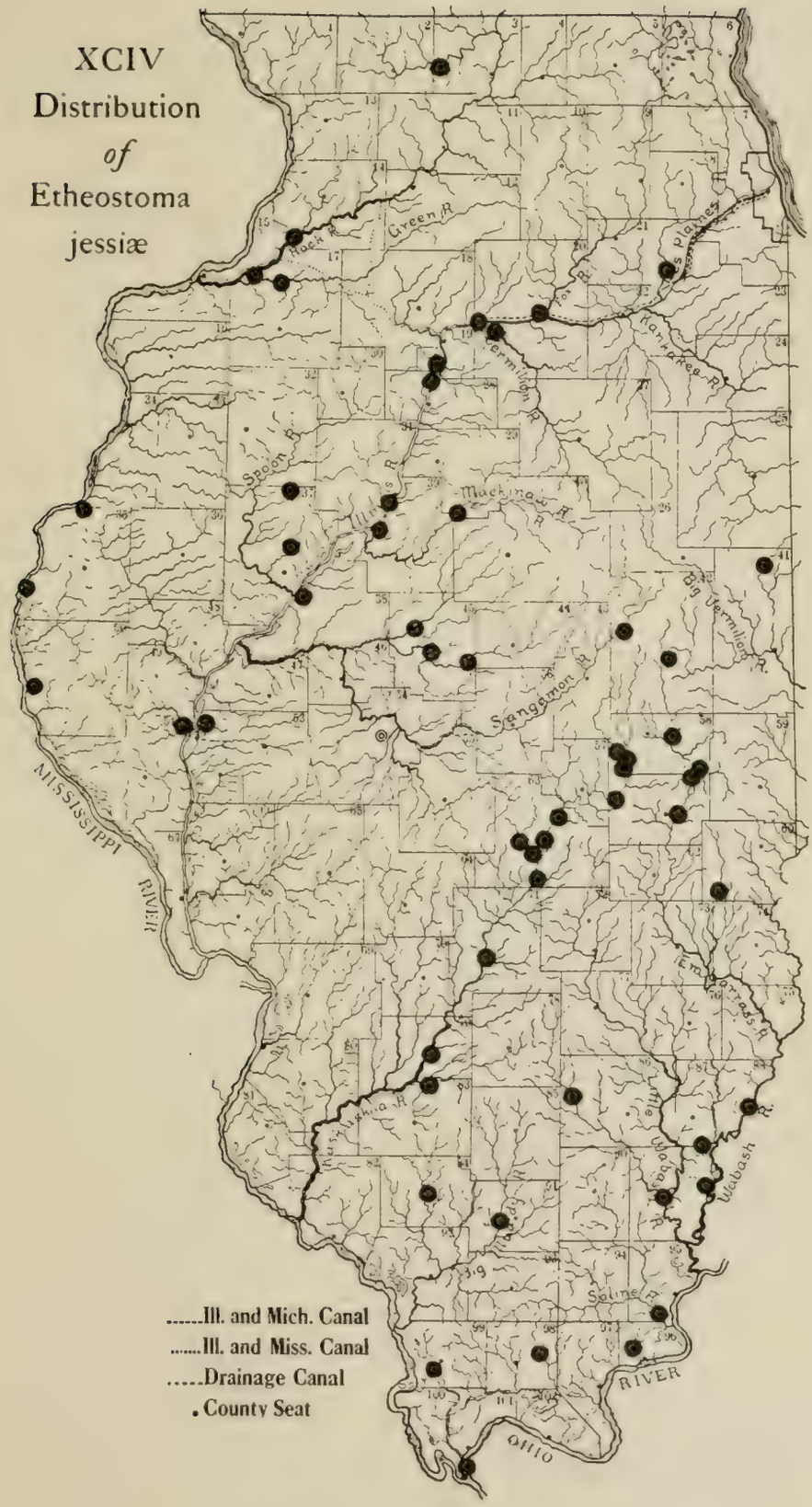
XCIV
Distribution
of
Etheostoma
jessiæ



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XCV
Distribution
of
Etheostoma
cœruleum

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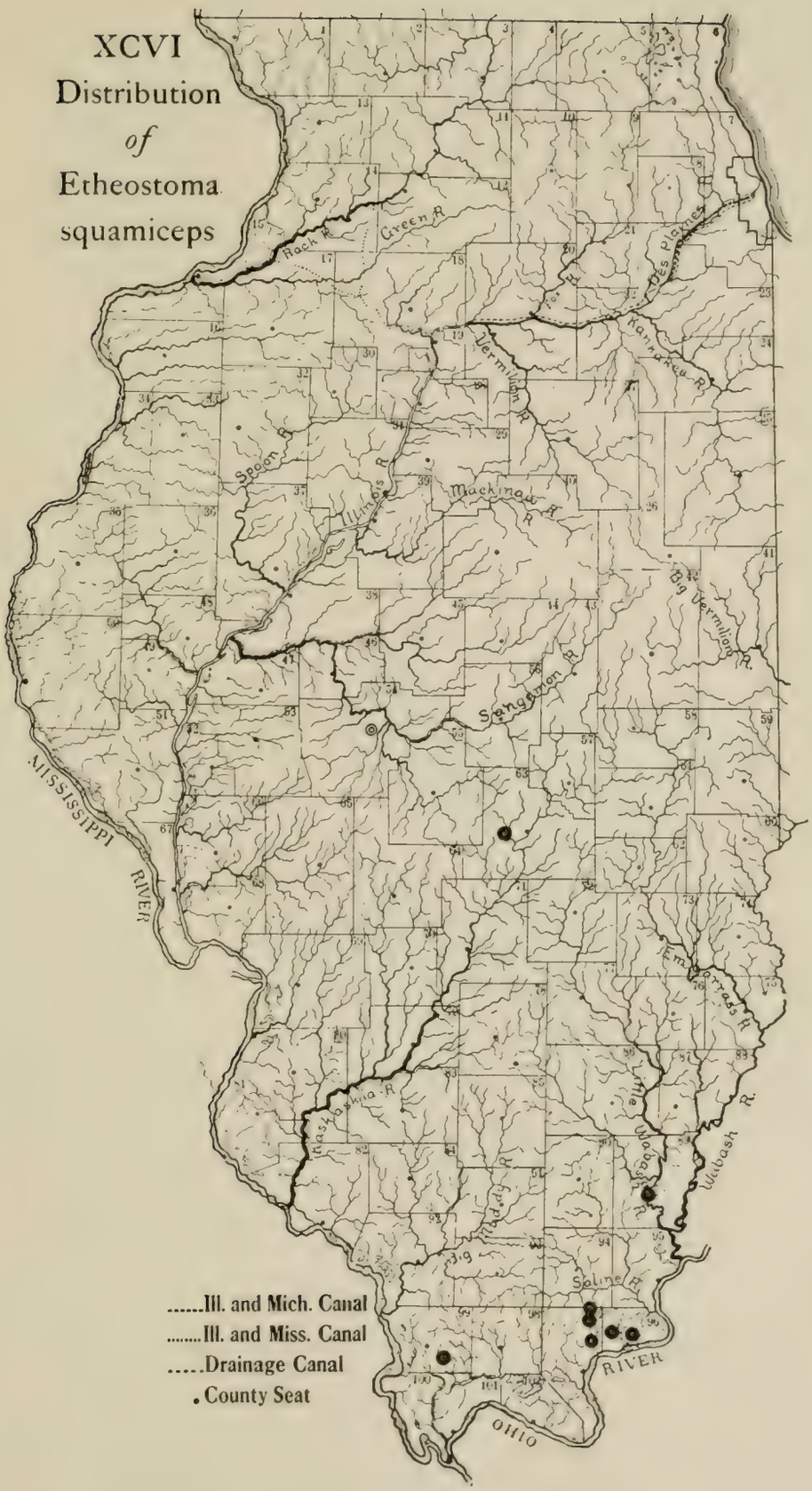
XCVI
Distribution
of
Etheostoma
squamiceps
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
Ohio
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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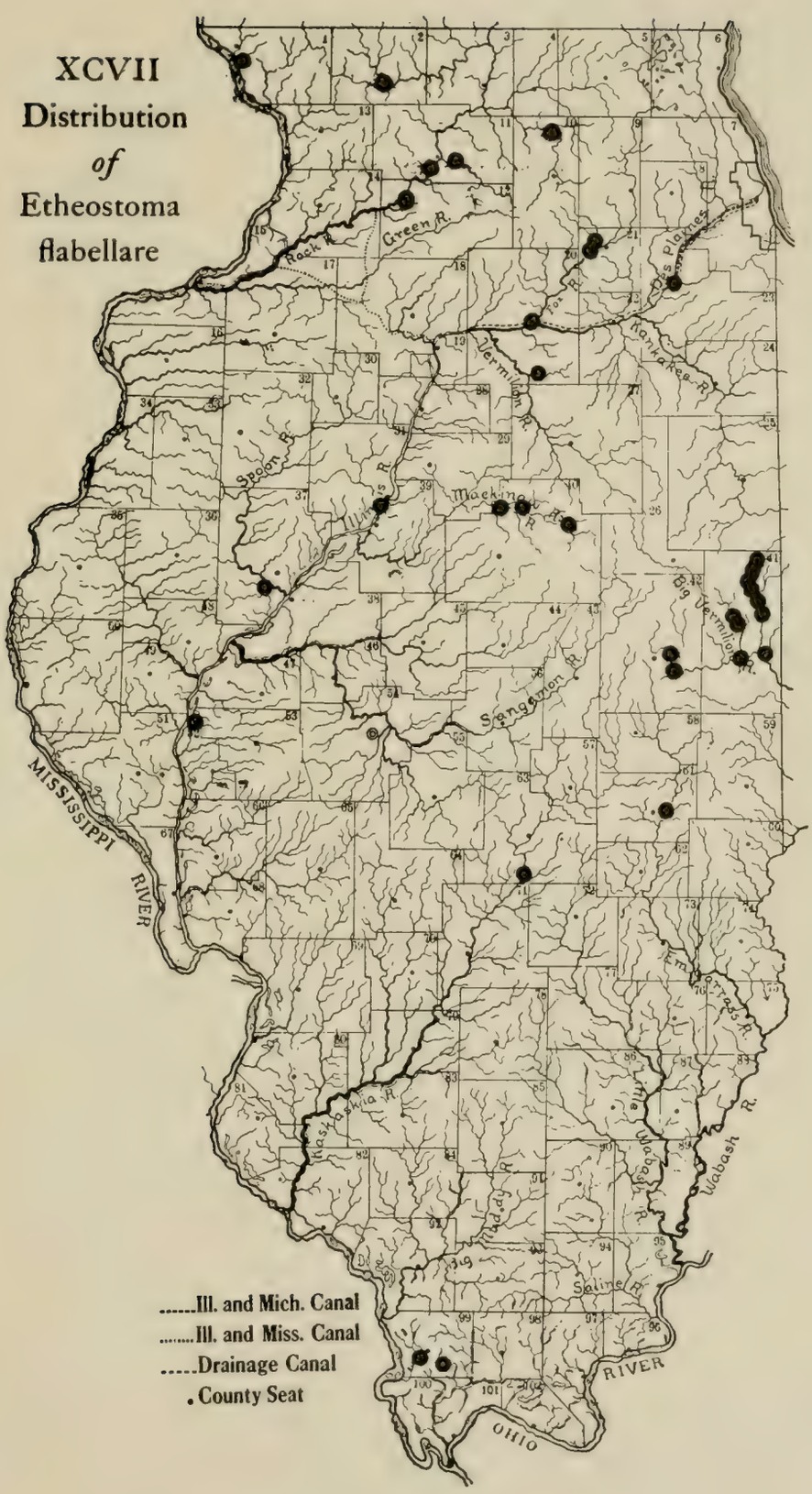
XCVII
Distribution
of
Etheostoma
flabellare
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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XCVIII
Distribution
of
Boleichthys
fusiformis
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
RIVER
OHIO
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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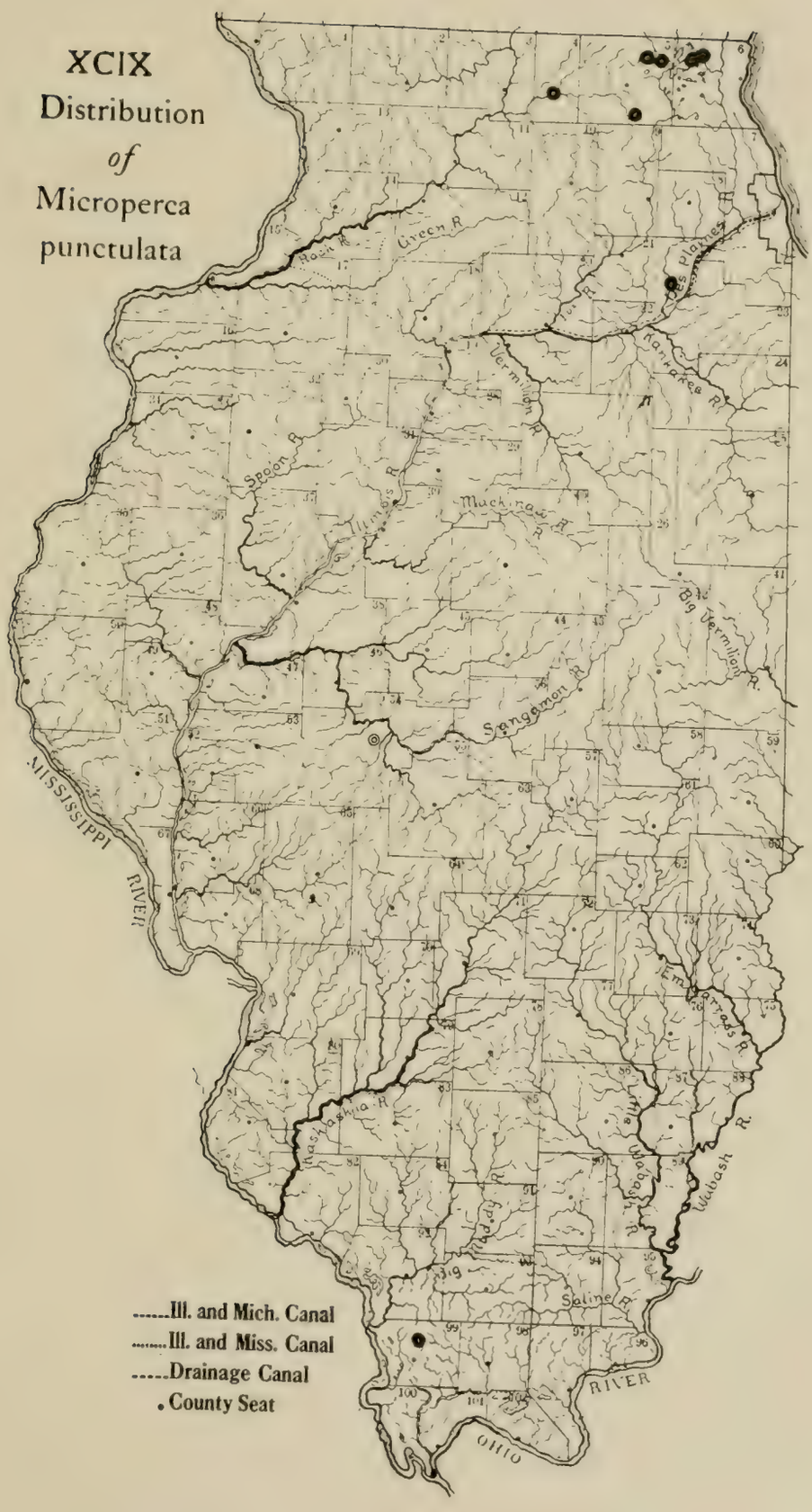
XCIX
Distribution
of
Microperca
punctulata



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C
Distribution
of
Roccus
chrysops

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Cl
Distribution
of
Morone
interrupta
Rock R.
Green R.
Des plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Embarras R.
Wabash R.
Big Muddy R.
Saline R.
RIVER
OHIO
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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CII

Distribution

of

Aplodinotus

grunniens

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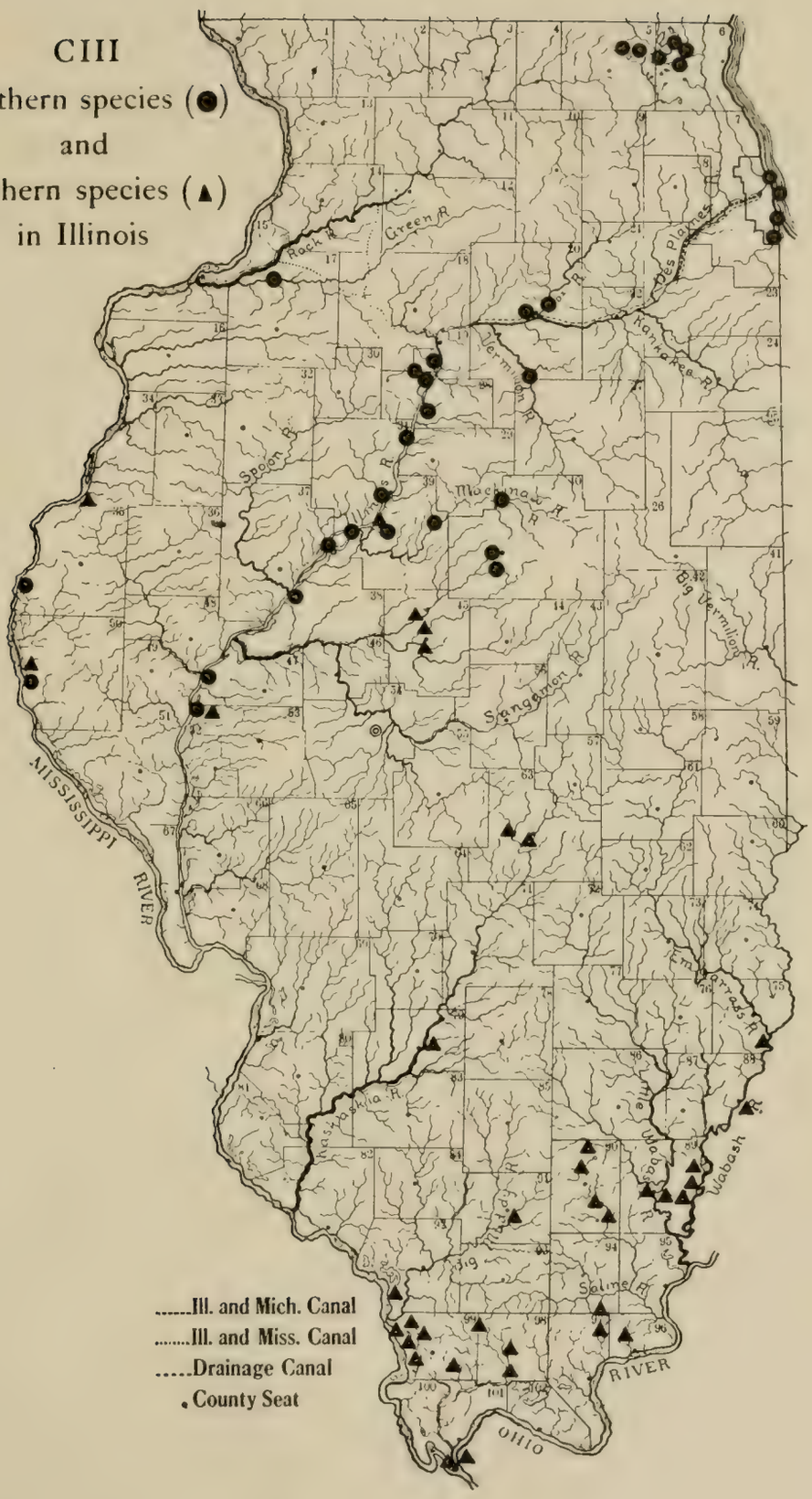
CIII

Northern species (●)
and
Southern species (▲)
in Illinois



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